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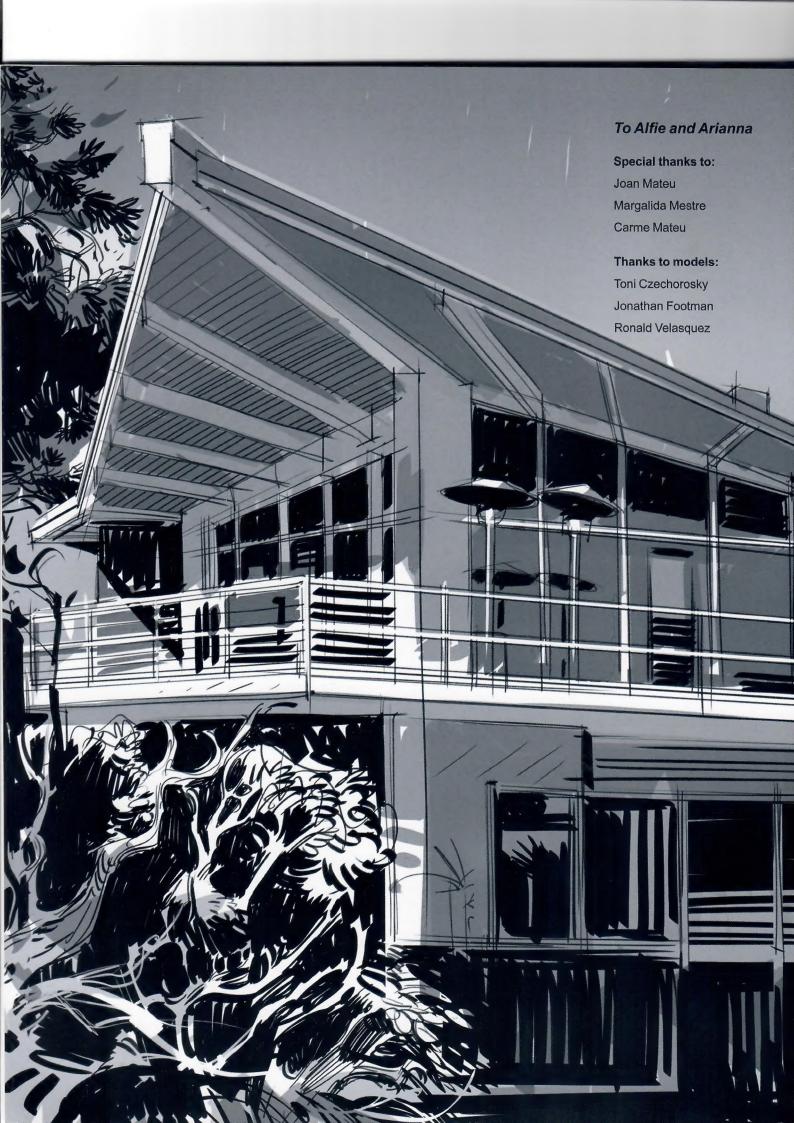
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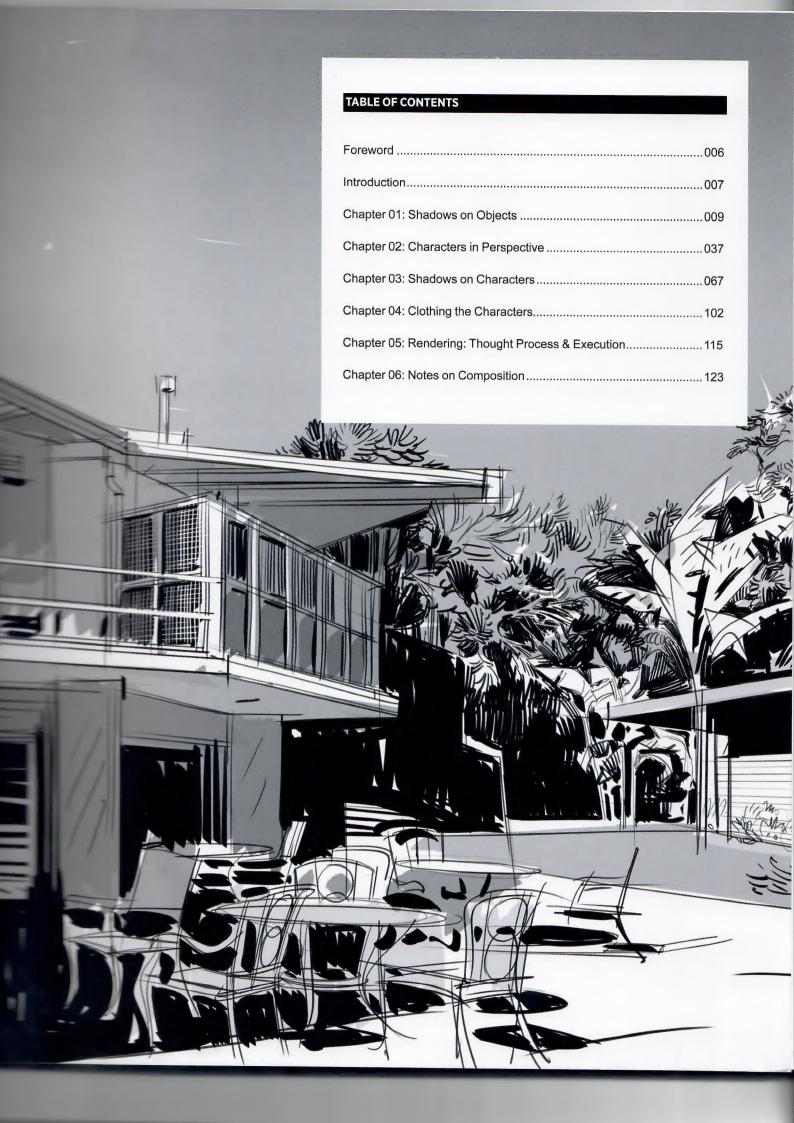
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TECHNICAL DRAWING FOR SHADOWS, VOLUME AND CHARACTERS







FOREWORD

Building on the wonderful instruction Marcos shared with us in *Framed Perspective Vol. 1*, we are all ready to be inspired and educated once again with *Framed Perspective Vol. 2*. This book came about as we were working with Marcos on the *Framed Perspective* title and it became apparent that he had simply too much great information to limit to just one book. After reviewing the complete content in detail and observing the special expertise Marcos brings to drawing figures so well in perspective, we determined this difficult subject (along with shadows and rendering volumes) would best be communicated in a second book.

As you have learned in *Vol. 1*, everything you observe in the natural world is seen in perspective. The more abstract perspective construction techniques of cast shadows are integral to acquire to add to your perspective drawings. Mastering these skills is one of the most important elements to add to your work to make the volumes feel more realistic. Just as perspective drawing can become a large asset and second nature, so too can the ability to implement cast shadows add value to your work.

Marcos excels at such a beautiful, skillful application of value to his drawings that I can't help but want to do the same with my own drawings each time I read this book. I hope you feel the same way and find many years of inspiration and education to improve your own work forevermore. Finally, I'd like to offer a huge thanks to Marcos for the time and effort he has relentlessly put into the completion of *Framed Perspective Vol. 2* for us all to enjoy.

Scott Reportson.

Author of *How To Draw, How To Render*Founder of Design Studio Press

Los Angeles August 2016

INTRODUCTION

One of the wonderful things about visual storytelling is the potential integration of everything and anything ever imaginable in the course of a story, from everyday life in any given part of the planet to the most outlandish (literally) science fiction story. An essential part of this process, in most cases, are the characters. To have the kind of control over the technique that will allow us to tell stories effectively, we will need to know how to work with them from any point of view and how to integrate them in the environments in which the action develops. It is also a fact that besides the spatial relationship between the two, a common lighting and the deriving shadows will tighten the net that will make our image or succession of images the credible fabric we need.

Framed Perspective 2 is targeting all these aspects so that it can offer a solid base to the visual storyteller on which to build his or her work. These are basic elements that, in my case and thanks to my art-oriented family, I became acquainted with since a very early age. From here my eternal gratitude to them.

MARCOS MATEU 3-2-16



SHADOWS ON OBJECTS

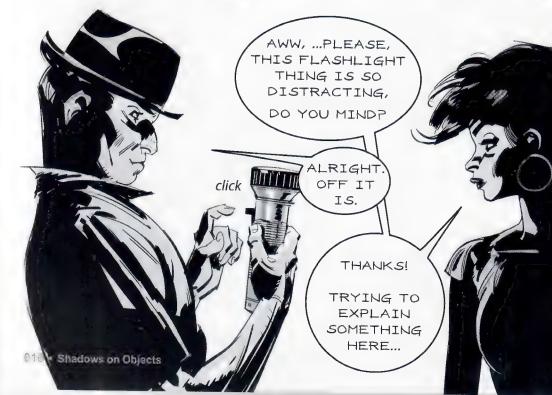












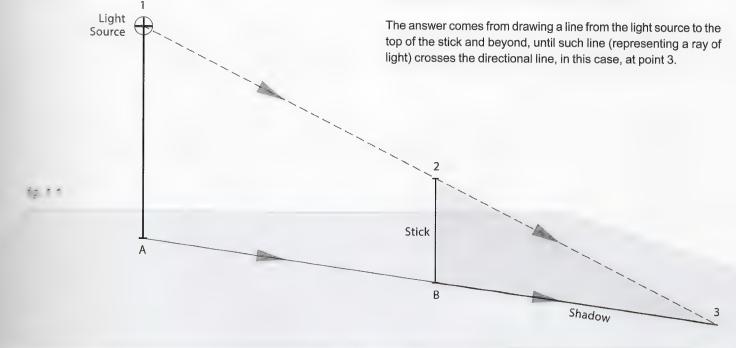
To work with shadows, three things are needed: 1 – a **light source**, 2 – an **object** totally or partially exposed to the light, and 3 – the surface on which the shadow of the object is projected.

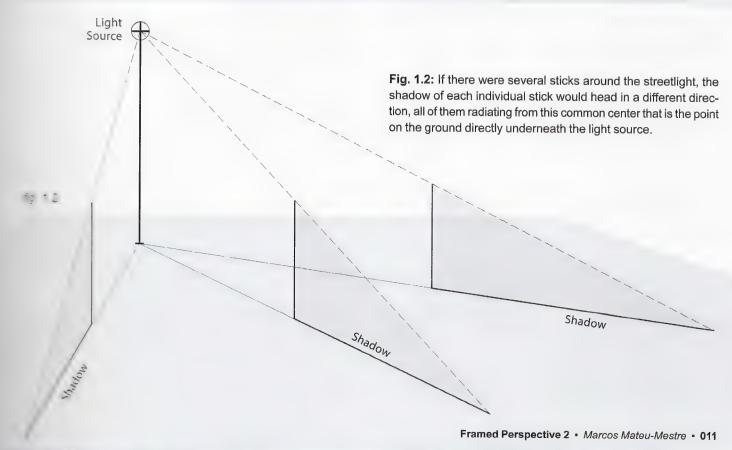
The way to work with these two cases is a bit different, but right easts start with a local source. Ready?

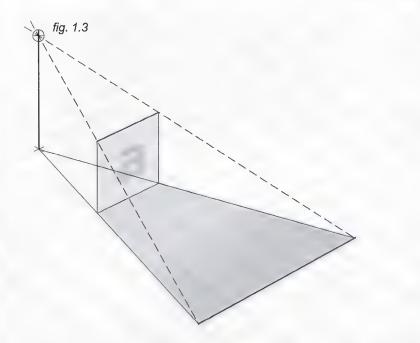
Fig. 1.1: Here are the three necessary elements: a streetlight, a stick exposed to its light, and a ground plane.

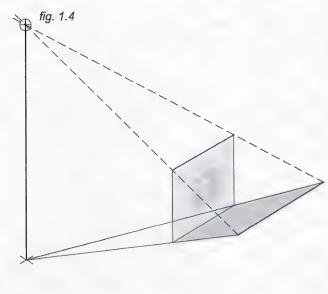
Draw a straight line from point A to B (that is, the points of contact with the ground of both the streetlight and the stick) and keep drawing past the base of the stick. Note: if instead of a streetlight the light source was a lamp hanging from the ceiling, just project the point of the light source straight down to the ground plane to find point A.

Line A–B indicates the direction in which to draw the shadow. The question is where should this shadow line end?

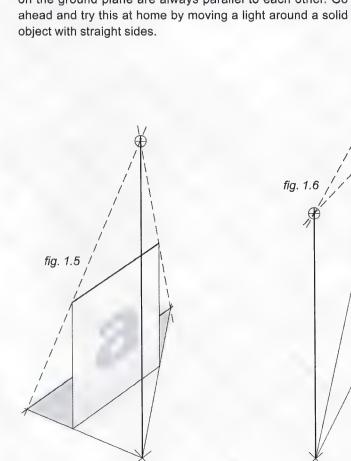


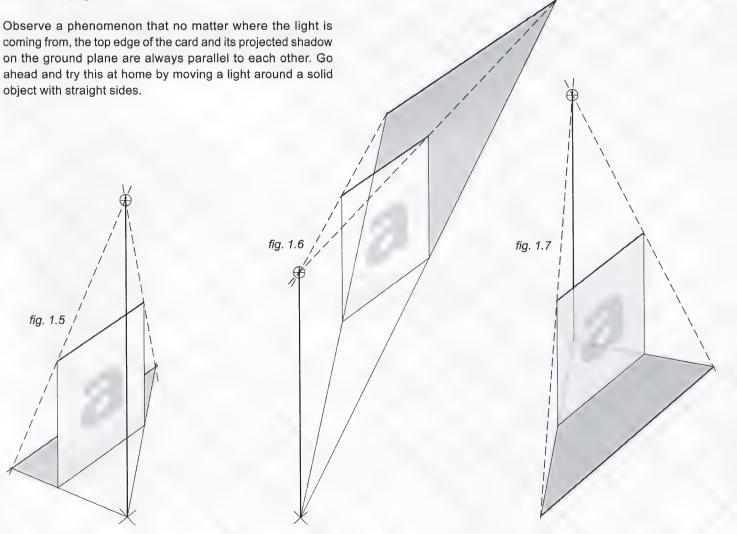




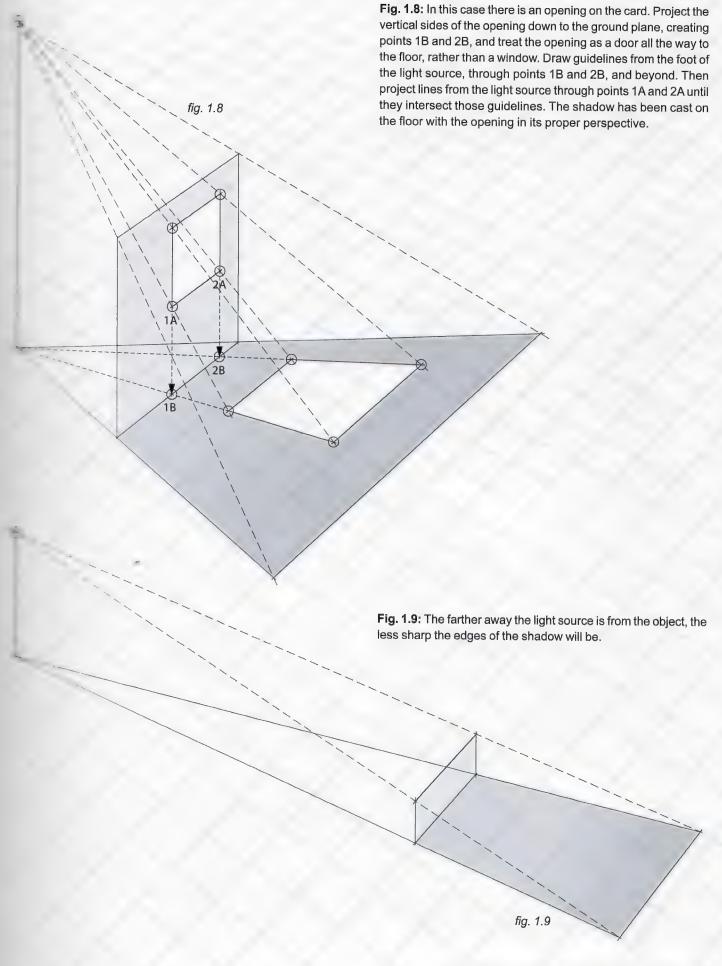


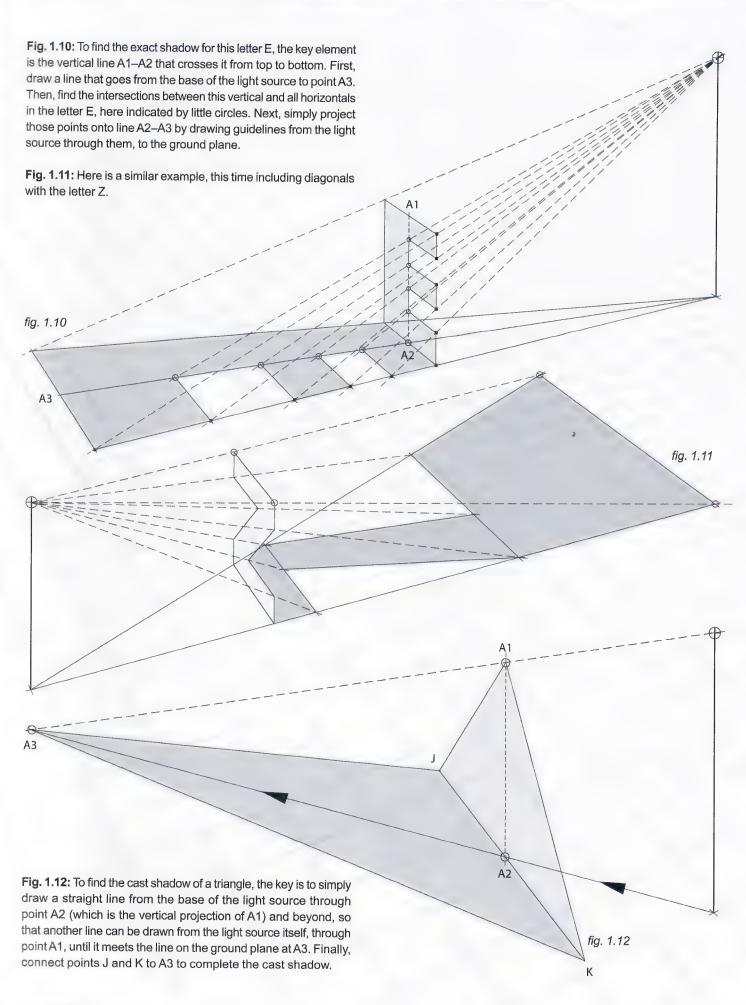
Figs. 1.3–1.7: Here are 5 identical cards on a flat perspective grid. In each case, the light source has been positioned differently to appreciate that the mechanics always work as explained on the previous page.

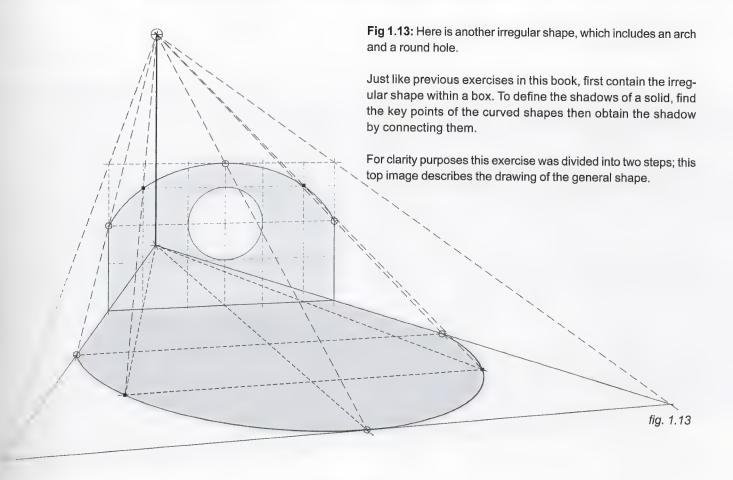


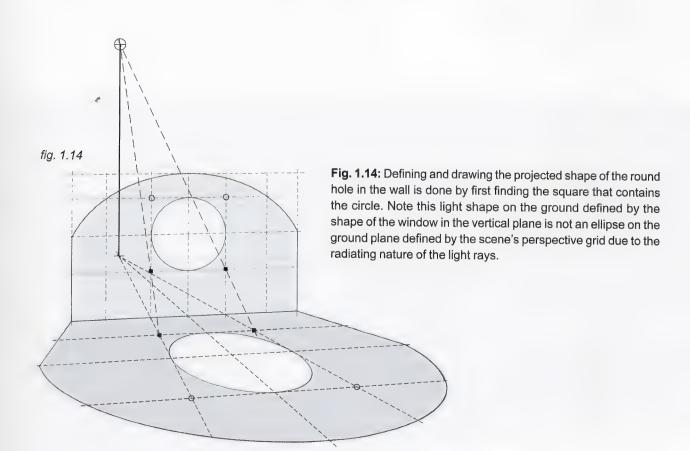


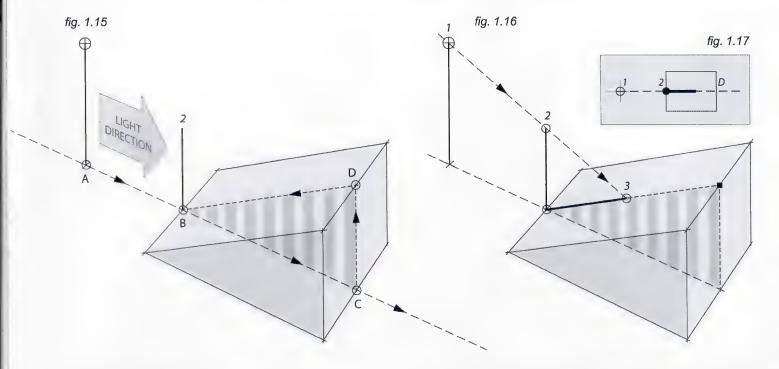
012 • Shadows on Objects











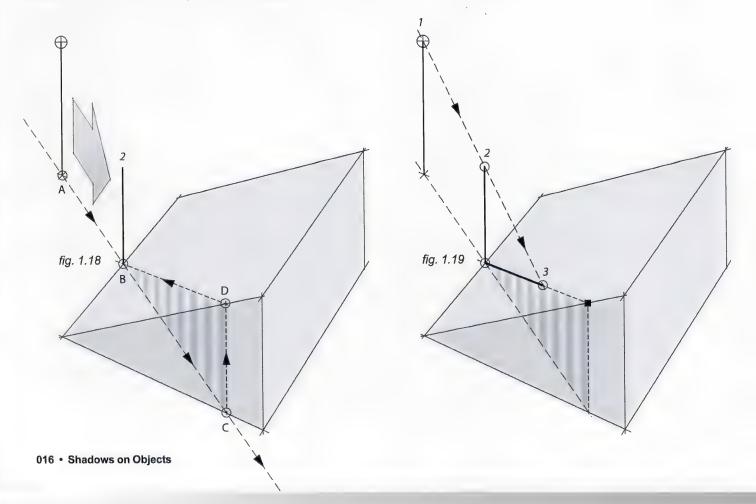
What about casting shadows on inclined planes?

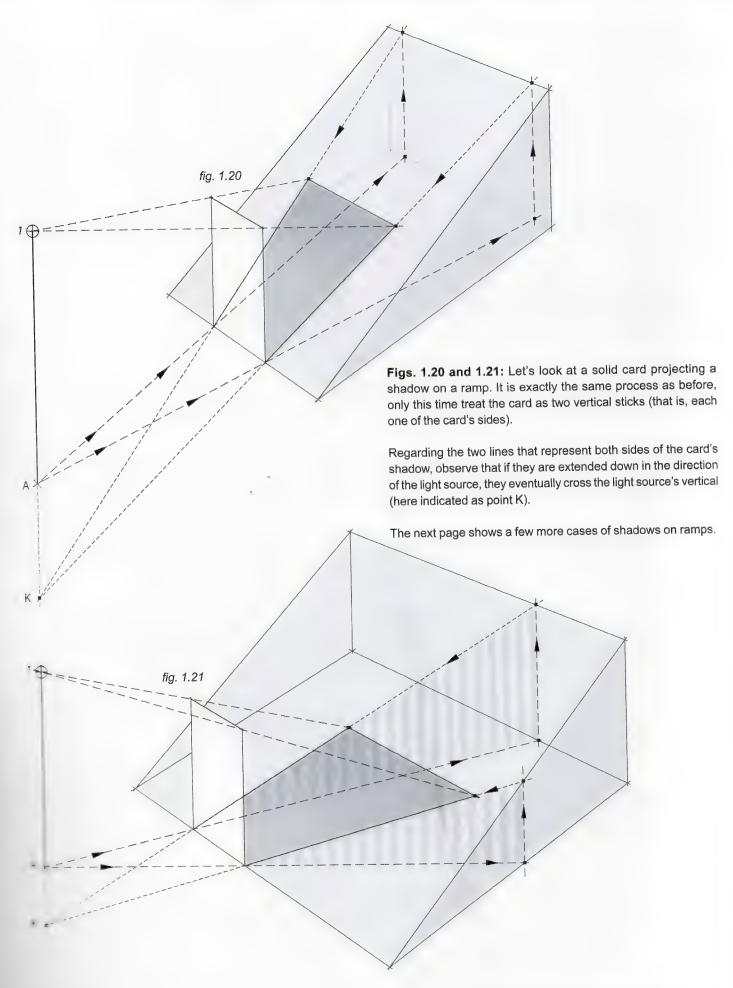
Fig. 1.15: Here is a ramp with a vertical stick (2–B) right at its base. Now imagine there is no ramp. Draw a line from the foot of the light source to the base of the stick (dotted line A–B) and extend it beyond the end of the ramp, creating point C. Project point C vertically upward to create point D. Then draw a line connecting points D and B. On this line B–D is where the stick's shadow will fall. Basically the section in stripes represents the actual shadow, if it was cutting the ramp vertically.

Fig. 1.16: To find the end of the shadow, draw a line from the light source to the top of the stick until it touches line B–D on the inclined plane. Job done.

Fig. 1.17: Interestingly, if observed from above, the shadow direction looks exactly the same with or without the ramp.

Fig. 1.18–1.19: The same procedure applies even when moving the light source around.





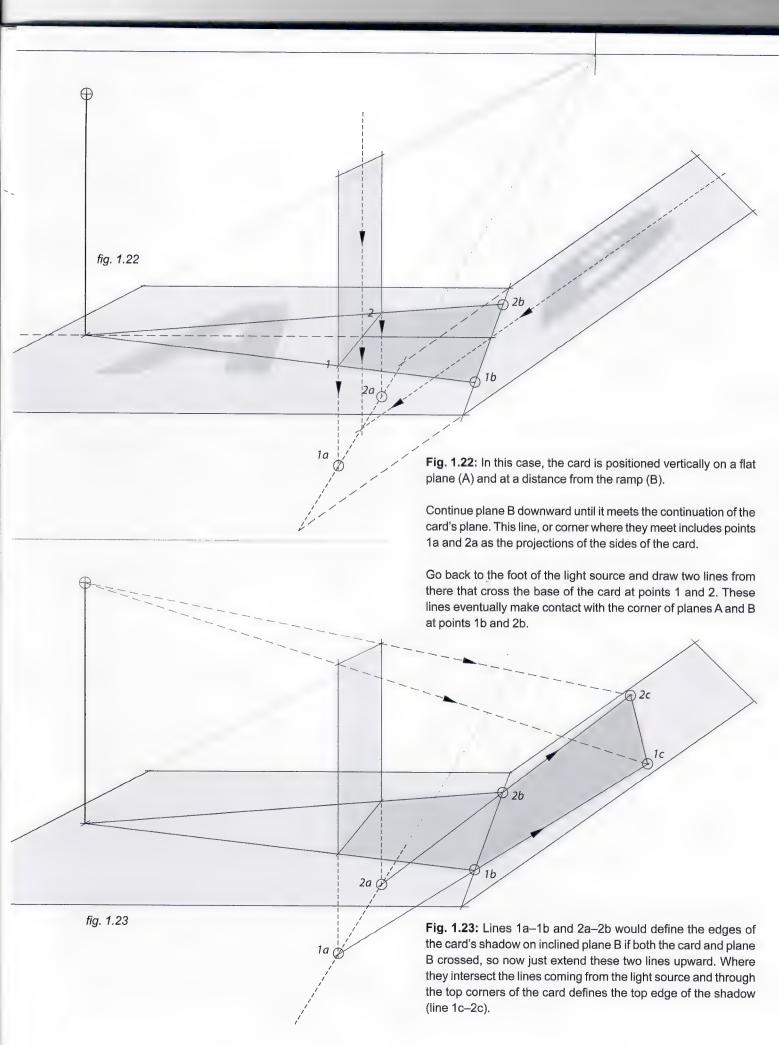
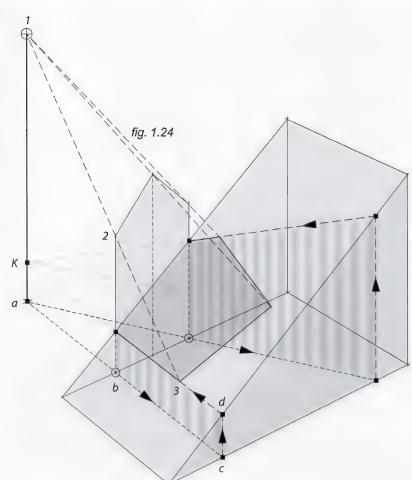


Fig. 1.24: Again, here is a shadow interrupted by an inclined surface before it can reach the ground plane.

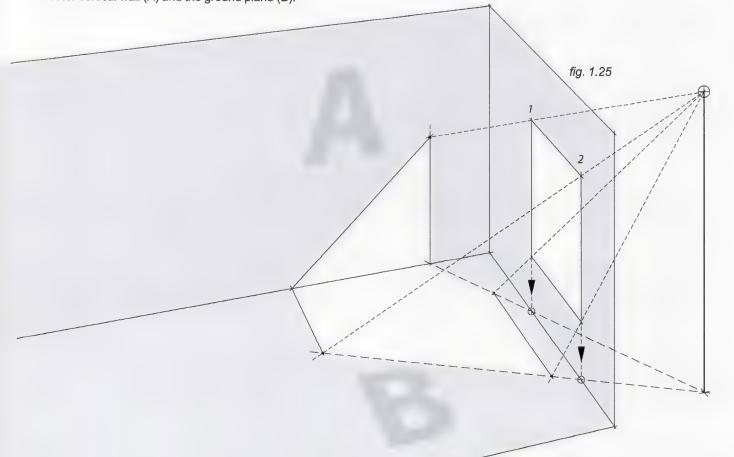
In this case, the shadow is cast by an object located to the side of the ramp and it is tackled the same way as it was on the previous pages 017–018. This is done by bringing the two sides of the object (or house-shaped card) down to the ground plane and then using those two points of contact (circled) and the base of the light source (a) to create the lines that literally wrap around the ramp (see the arrows), going all the way back to the points of contact of the house-shaped card with the ramp.

As expected, the two resulting lines on the ramp's surface converge to point K on the vertical projection of the light source.



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Fig. 1.25: Here is another example of light coming through a gap in a wall, and how it is projected onto another vertical wall (A) and the ground plane (B).



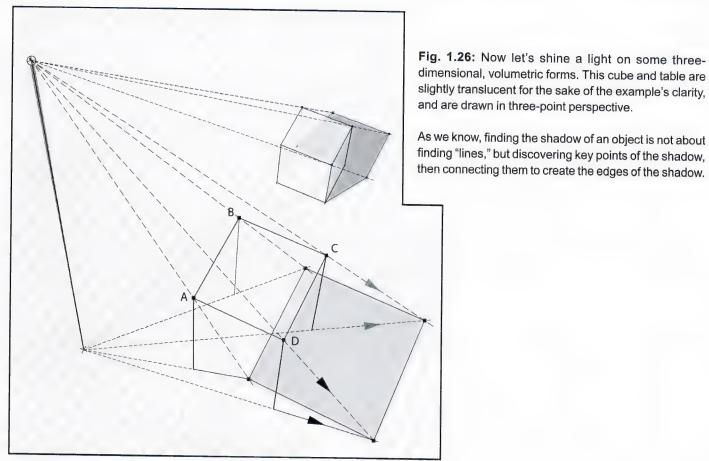


fig. 1.26

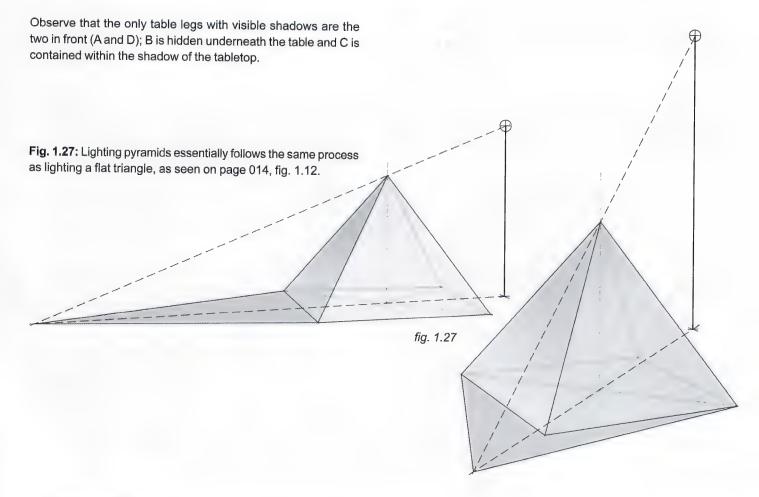


Fig. 1.28: This next exercise could be applied to a doorway, a window or a fireplace. As usual, draw a guideline from the base of the light source, through point 1, and from the light source itself through point 2. They intersect at point 3.

When drawing the projected shadow of the top of the fireplace, at some point the right wall is hit. From there, connect it to the frame's top-right corner

Fig. 1.29: Here is yet another curved object casting a shadow. For this fountain-like piece it is done in two steps, starting with the base. Draw as many verticals as needed to properly represent the area of the cylinder on the shadow side. Find the shadow points of each of these "sticks" and then connect them to obtain the desired shadow.

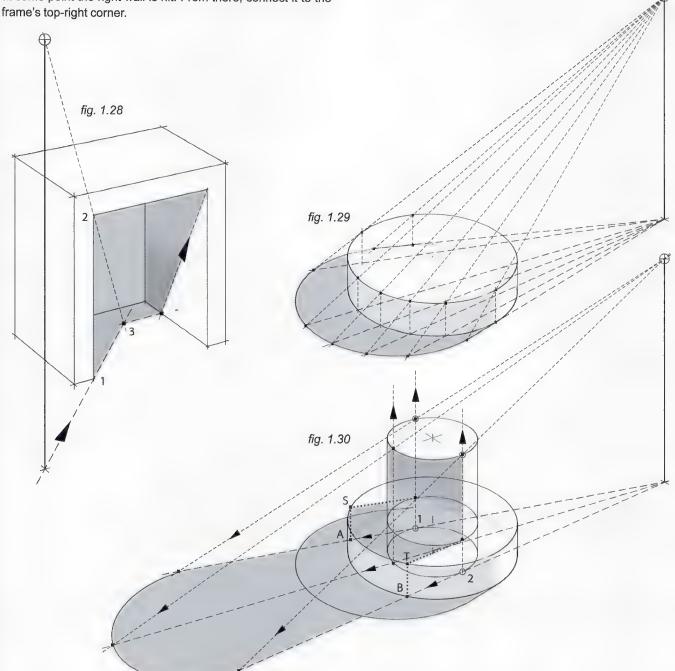


Fig. 1.30: After completing the base, move on to the top cylinder. Make sure to draw the cylinder all the way to the ground and then draw the shadow as if the bigger, wider base does not exist. Draw guidelines from the base of the light source tangent to either side of the ellipse (on the ground plane), creating points 1 and 2 (circled).

Project points 1 and 2 upward. Where those lines intersect the top of the cylinder, draw guidelines from the light source through them, all the way to the ground plane.

Finally draw verticals from points A and B upward, until they reach the top of the base at points S and T, then draw tangent lines to the bottom of the visible part of the thinner cylinder (see dotted lines).

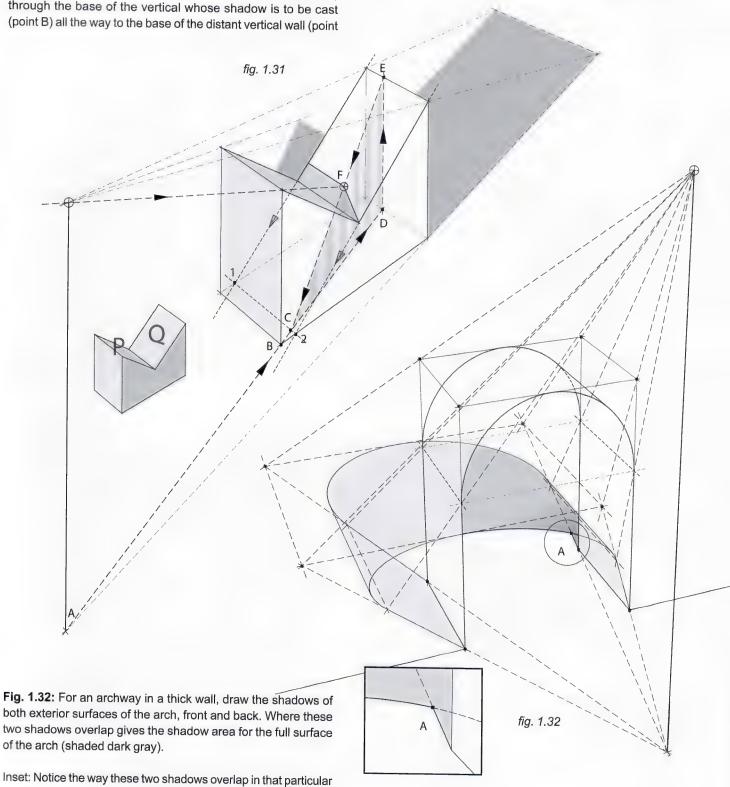
Fig. 1.31: Let's project the shadow of an inclined plane (P) onto another inclined plane (Q), like the shadow of a rooftop onto another rooftop.

Same drill as the previous inclined planes: Extend the ramp on which the shadow will fall, down to the ground plane (points 1 and 2).

Next, draw a line from the base of the light source (point A) through the base of the vertical whose shadow is to be cast

D). "Wrap the line" around the object by heading vertically to point E and then back down to point C which is on the original line A–D so that line C–E is the representation of C–D on the surface of the inclined plane where the shadow is needed.

Point F, the intersection of line E–C and the line coming straight from the light source, is the key point for the shadow to be drawn.



crossing creates not a smooth curve but actually an angle.

about the shadow projected on the inner wall of the arch?

1.33 (right): It is simple; use the same system. From the source, project several specific points from the arch onto the oner wall.

1.34 (below): The light source intersects the front wall of the arch at points 1–5, and intersects the inner wall at points 1–5a. Connect those points to find the curve of the shadow's edge. If the curve were to continue down to the ground the would intersect point A, where the two visible lines of the shadow's edge on the ground meet.

recentally, if this is the only light source, then the room beyond the arm is in total darkness.

Fig. 1.35: Now the light source is coming from a different direction than in the other drawings. When key points for the shadow's edge are on the curved area of the arch itself (point F, as we will eventually find out), first project the point onto the vertical wall behind it (point AA), then bring it up to the surface of the arch following the process visualized here. This is essentially the same process that is used for shadows on inclined planes: Find the key point on the flat surface and then project it to the object's surface.

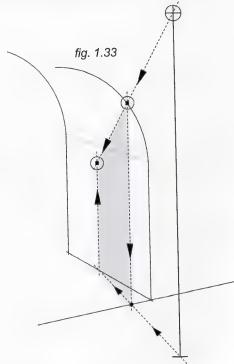
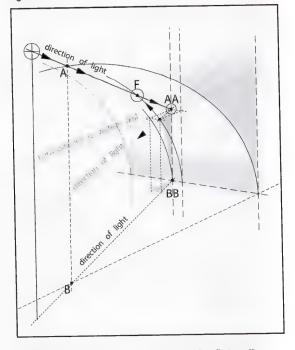


fig. 1.35



AA-BB: Vertical on which light hits the flat wall.
AA: Shadow point projected on the vertical wall.
F: The final point we were looking for.

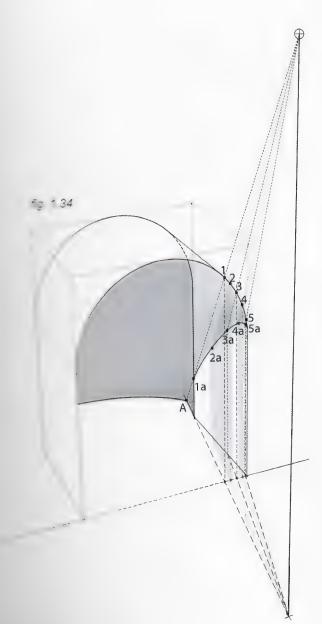
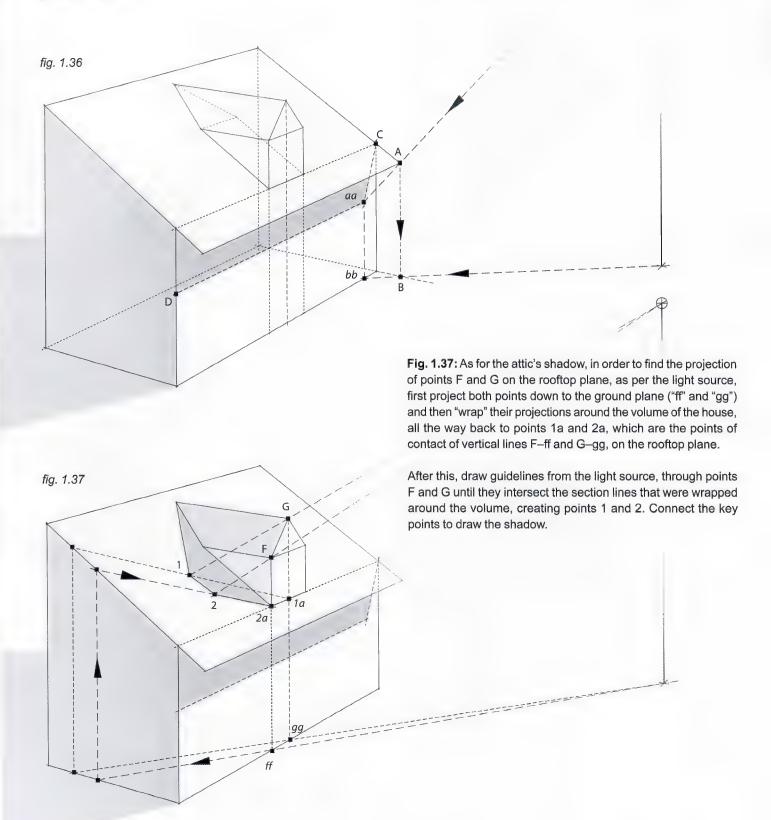
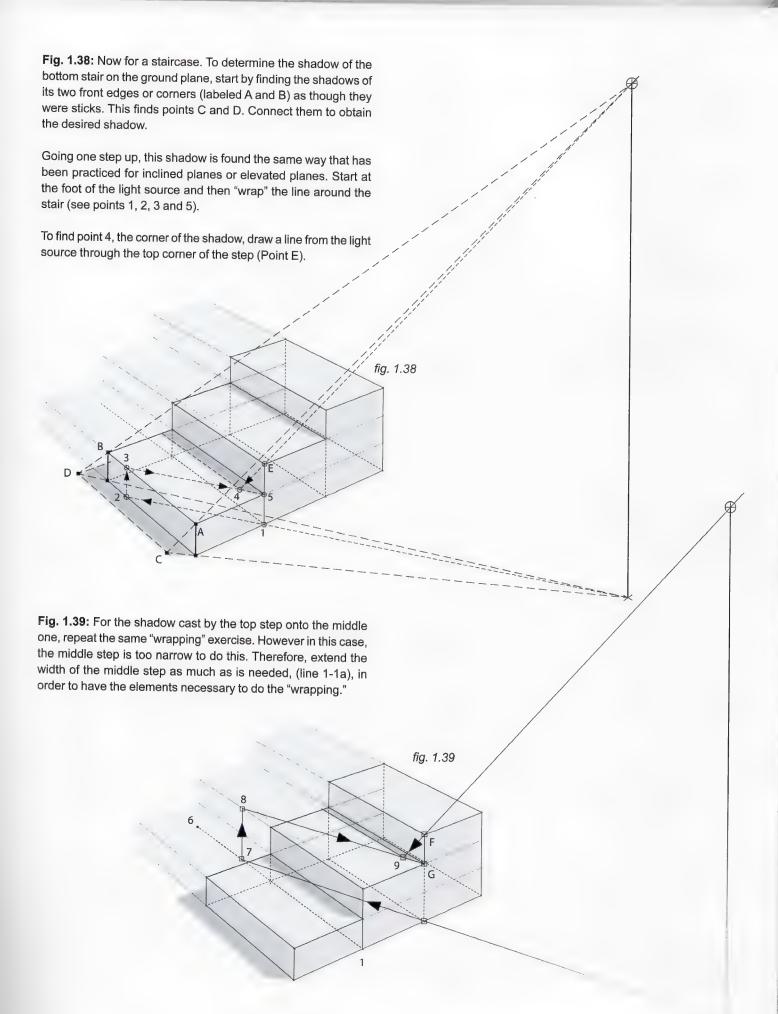


Fig. 1.36: To get the appropriate shadows for this house, start with the eave (overhang). First, project its corner (point A) vertically to the ground plane (point B).

Next, draw guidelines from the light source and its base through points A and B respectively, onto the building's façade, creating points "aa" and "bb."

Point "aa" is the projection of the eave's corner on the façade. Draw a line from there to where the front corner meets the roof (point C), and then draw a parallel to the roof's edge from point "aa" to the opposite corner, (point D). These two lines (aa–C and aa–D) define the eave's shadow.





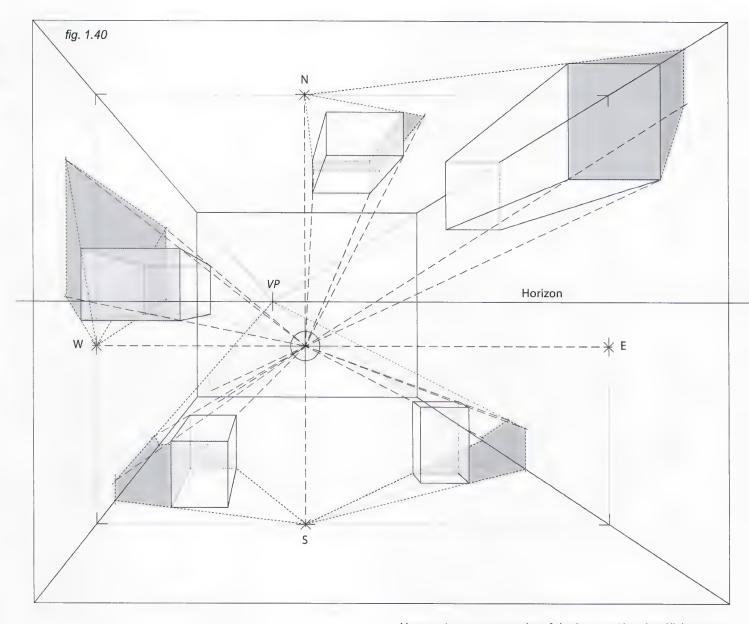


fig. 1.41

Here are two more examples of shadows cast by a local light source.

Fig. 1.40: Here is a room where the light source is either on a stand or hanging from the ceiling. Some objects are on the floor; others are attached to the ceiling or the walls.

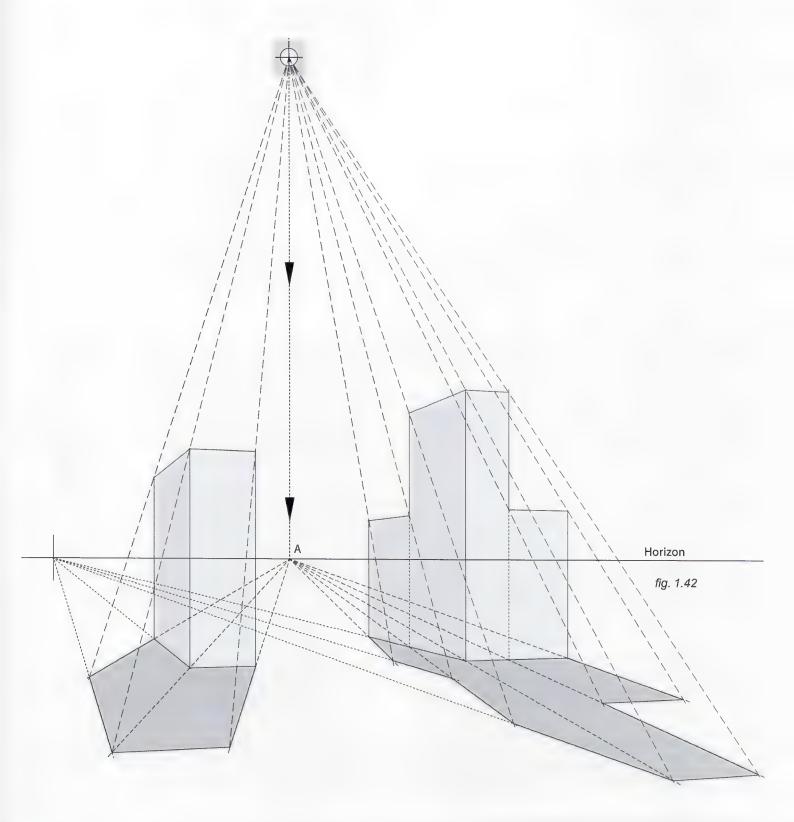
To deal with this scenario, project the light source onto every wall (creating points N, S, E and W). These points will operate as the base of the light source, as seen in all of the previous examples, only this time they represent not only the vertical projection of the light source, but also its horizontal projection.

Fig. 1.41: To find the shadow of a floating object with a light source positioned above it, draw the projection of the object onto the floor so that the whole thing can be treated as a full polyhedron of which the lower section will eventually be cut off.

If the light source was located at a level lower than the box, do exactly the same thing but inverted, meaning the projection of the box would need to be found on the ceiling.

Fig. 1.42: When the light source is at an "immeasurable" distance from the viewer, like the sun or the moon, the mechanics are essentially the same; the difference is that the projection of the light source on the ground (point A) is found on the horizon.

Observe how this works when looking toward the light source.



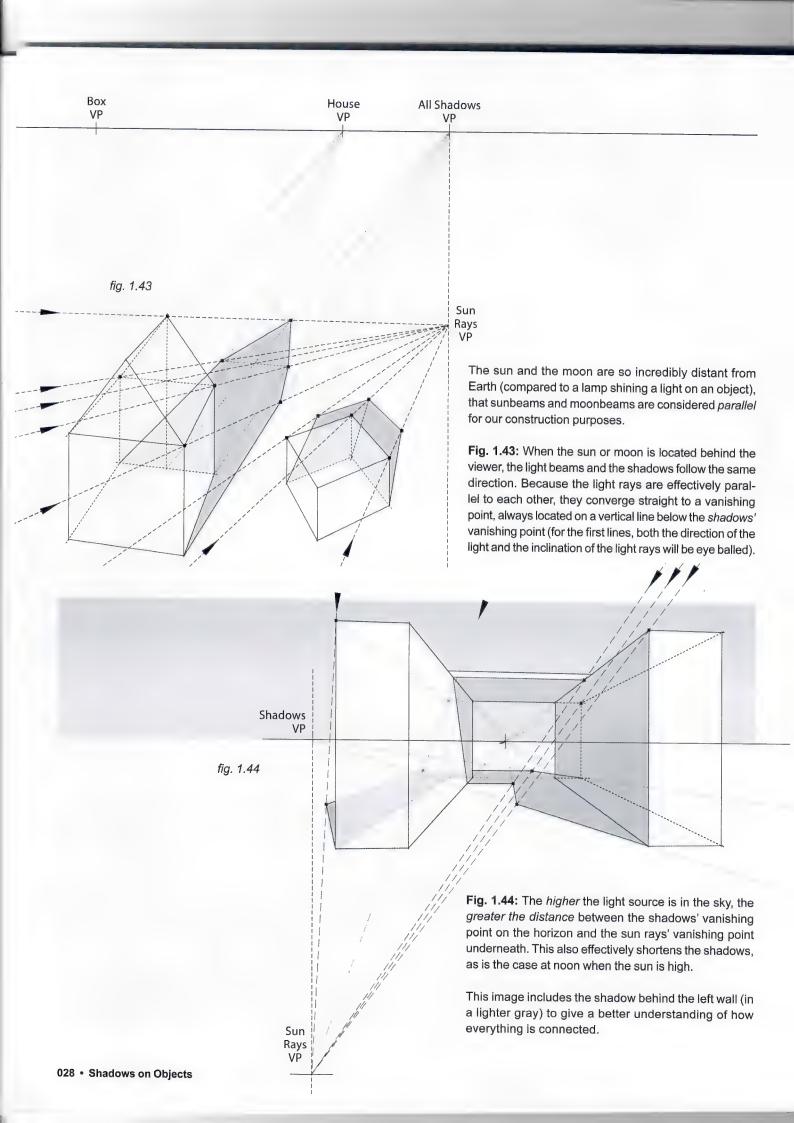
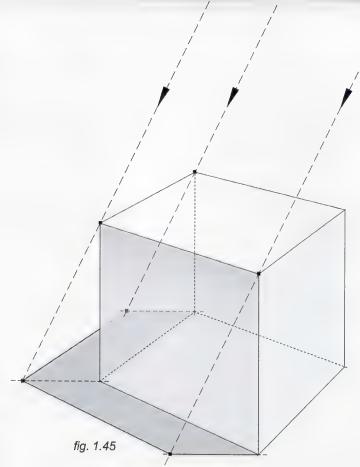


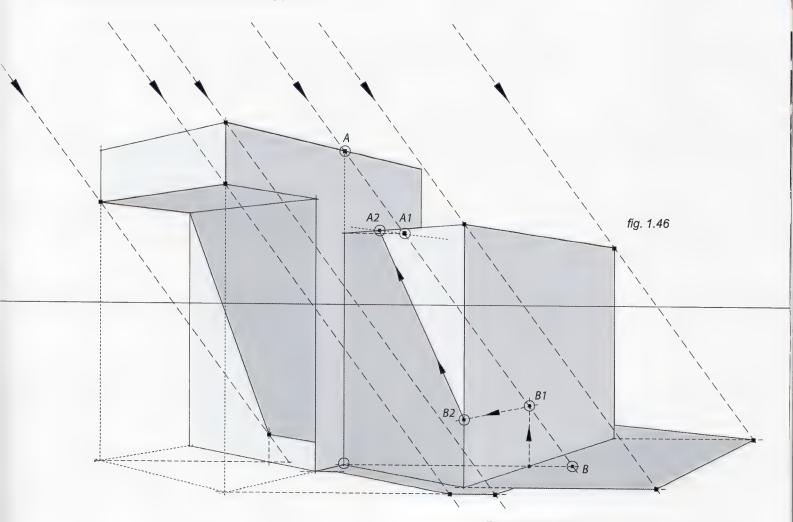
Fig. 1.45: When rays of sunlight come perfectly from the side they appear parallel to each other and the direction of the shadow on the ground plane is perfectly horizontal.

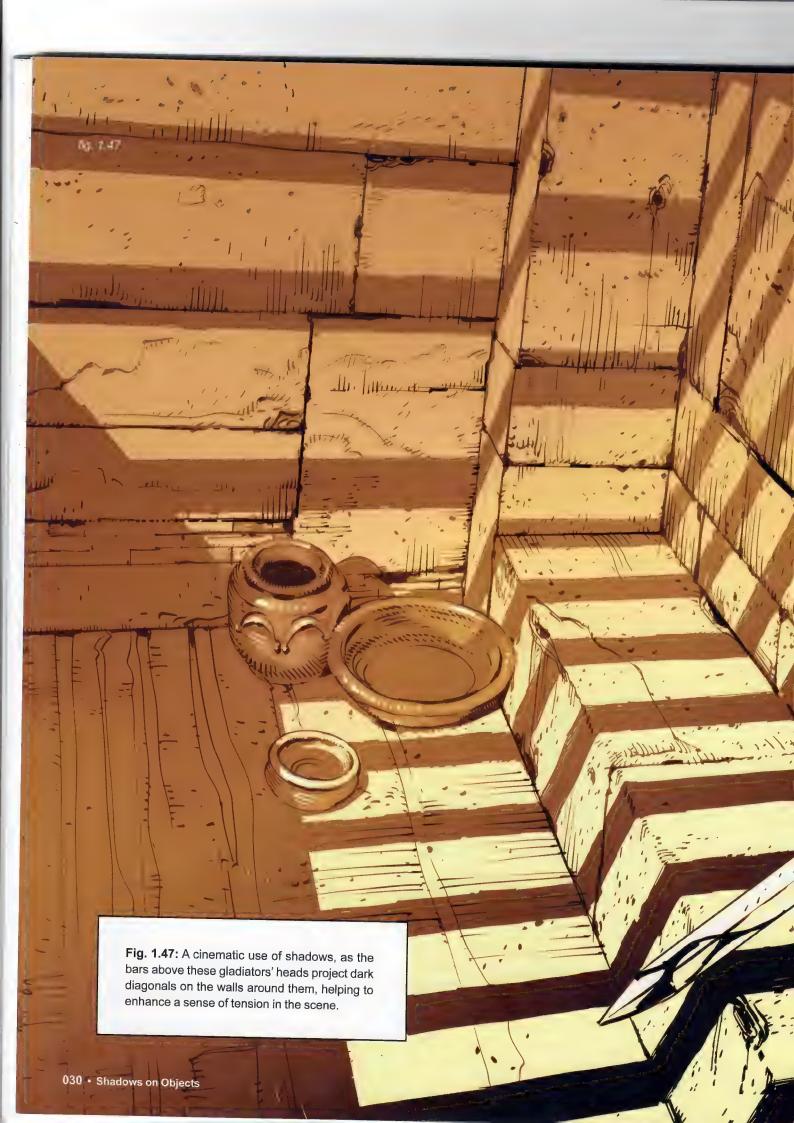
This cube has been rendered a bit translucently to show how the shadow works.

Fig. 1.46: Below is a more complex case, also with sunlight coming from the side.

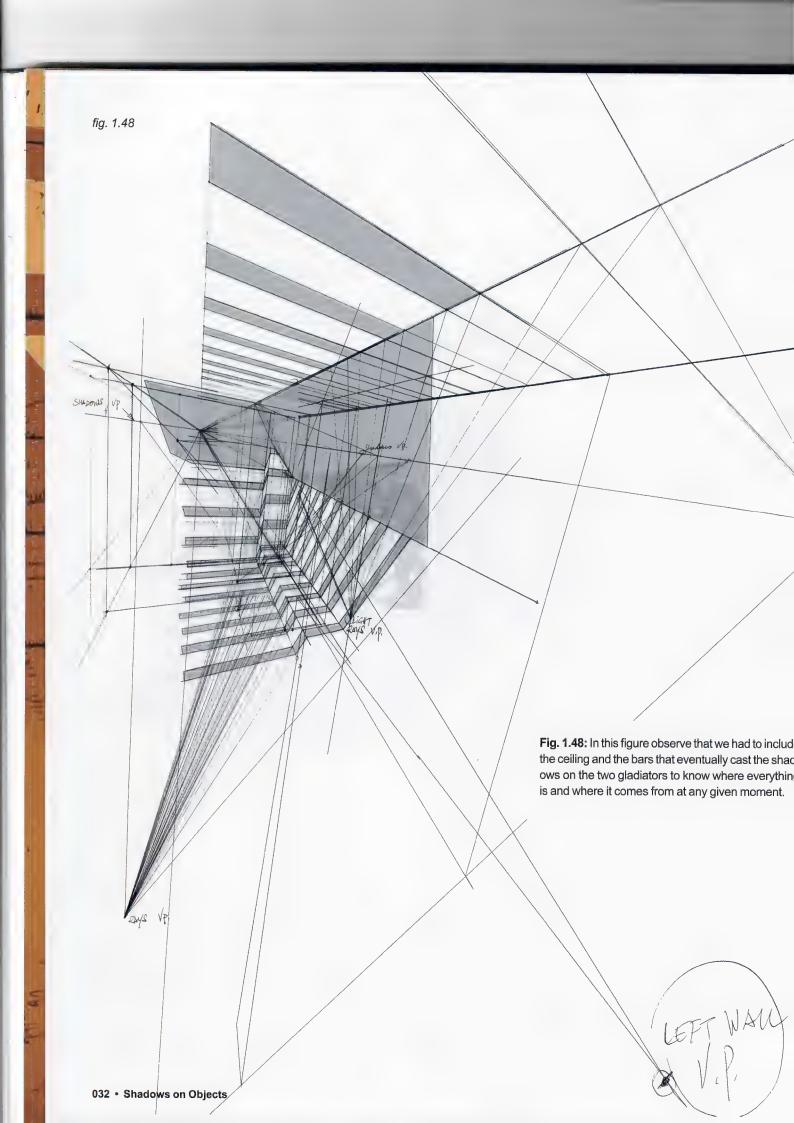
Observe that line A–B is interrupted by a large, volumetric shape in the form of a box attached to the right of the main object. In this case, draw the entire line from point A to B as if no obstacle were there, and then project points "A1" and "B1" to the side of the box on which the shadow will be projected (between points "A2" and "B2") following the wall's vanishing point.











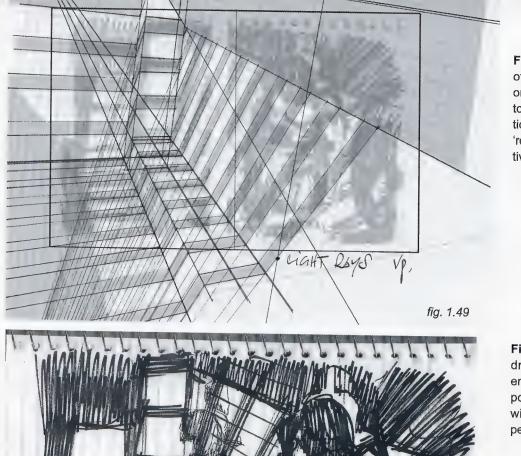


Fig. 1.49: This figure is a view of one of the steps. Note we still have the original sketch we are trying to adhere to. Remember, first there is the artistic view or vision, then we bring it into 'reality' through the use of the perspective principles, modeled in this book.

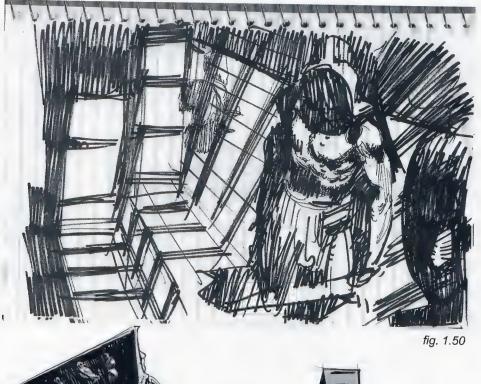


Fig. 1.50: This is the original sketch, drawn purely by intuition. Experience and practice will take you to the point where even a small thumbnail will follow at least the basic rules of perspective quite reasonably.

Fig. 1.51 (below): The choice of a Murmillo helmet for this drawing, out of all the types of gladiator helmets,

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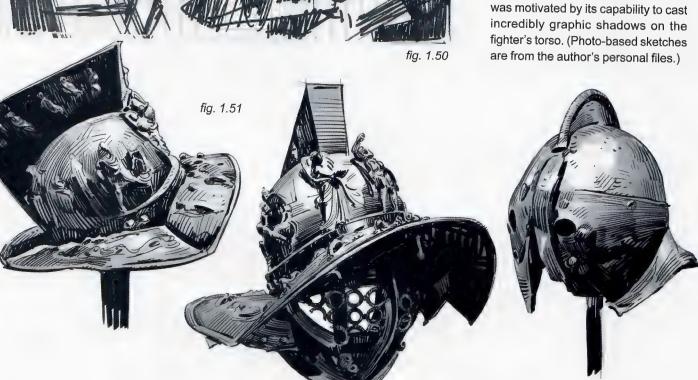
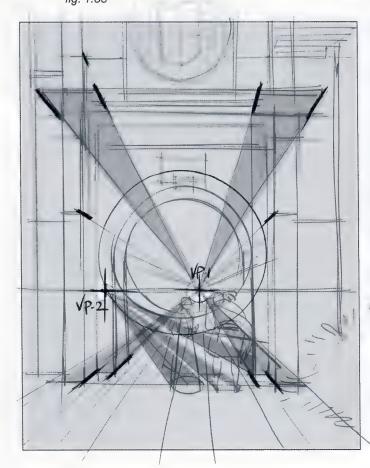




Fig. 1.52: Technicalities aside, directly backlighting a scene offers us the possibility of going very graphic and straight forward, creating clear and dramatic shots with the use of rimlights.

Fig. 1.53 (right): This is a sketch for "The Passage Ahead" illustration shown on the next page. See that we always have to visualize the horizon and vanishing points, for both the architectural elements as well as for the shadows themselves.

Fig. 1.54 (next page): Setting up the light source behind the camera allows the characters, in this case, to stand out in a pool of light up against a dark backdrop.







CHARACTERS IN PERSPECTIVE

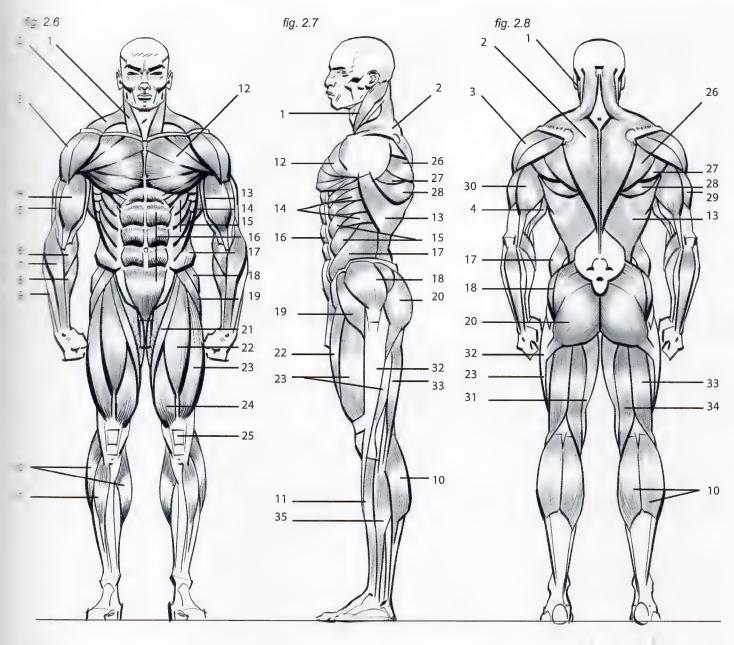
All of the lessons of the previous chapters can be applied to drawing the human figure, specifically comparing distances and proportions, recognizing negative space, and finding angles of inclination.

The first step in being able to draw a human body is to study the bare minimum amount of anatomy to understand its general structure. This structure is based on bones and muscles that create shapes.

Fig. 2.3: This illustration shows the basic bones that support the entire anatomy of the body, with their names listed on page 039.

Figs. 2.4 and 2.5: The height of an average human body of rather athletic/heroic proportions is approximately 8 times the height of its own head.

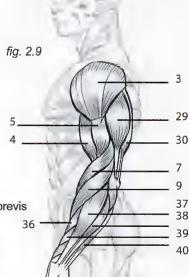
Figs. 2.6–2.9: Observe a human body from the front, side and back; all of the muscles shown make three-dimensional sense. Their names are numbered and listed at the bottom of page 039.

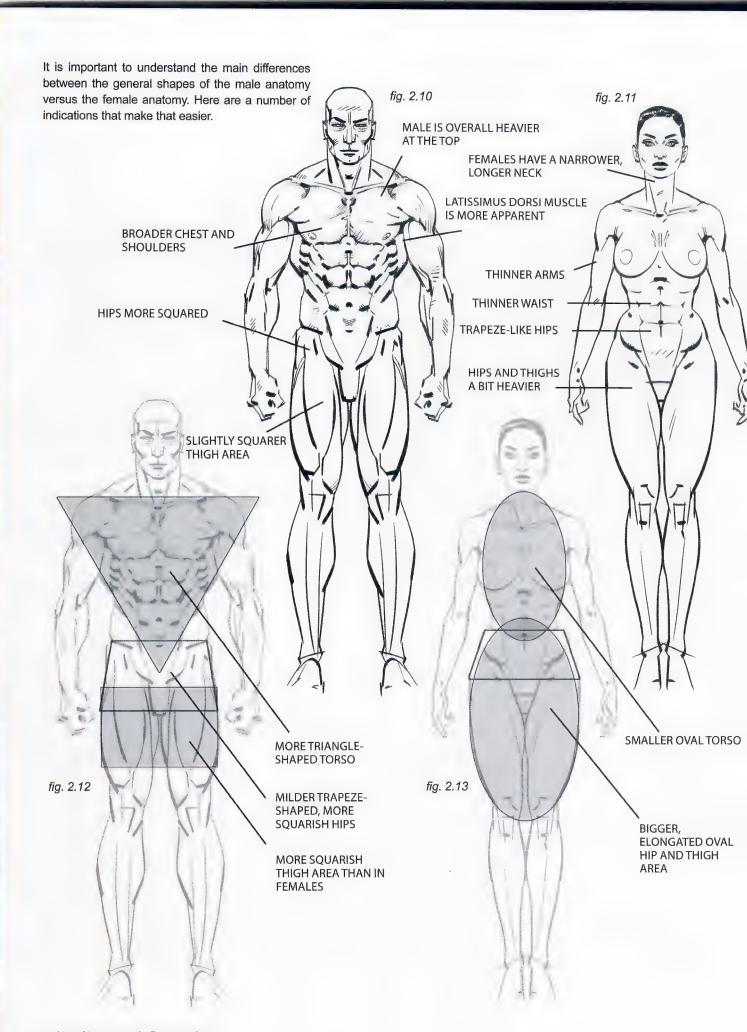


- A- Skull
- **B-** Clavicle
- C-Scapula
- D-Humerus
- E- Sternum
- F- Spine
- G-Radius
- H-Hipbone
- J- Femur
- K- Patella
- L- Tibia
- M-Fibula
- N- Tarsal bones
- 1- Sternocleidomastoid
- 2- Trapezius
- 3- Deltoid
- 4 Biceps

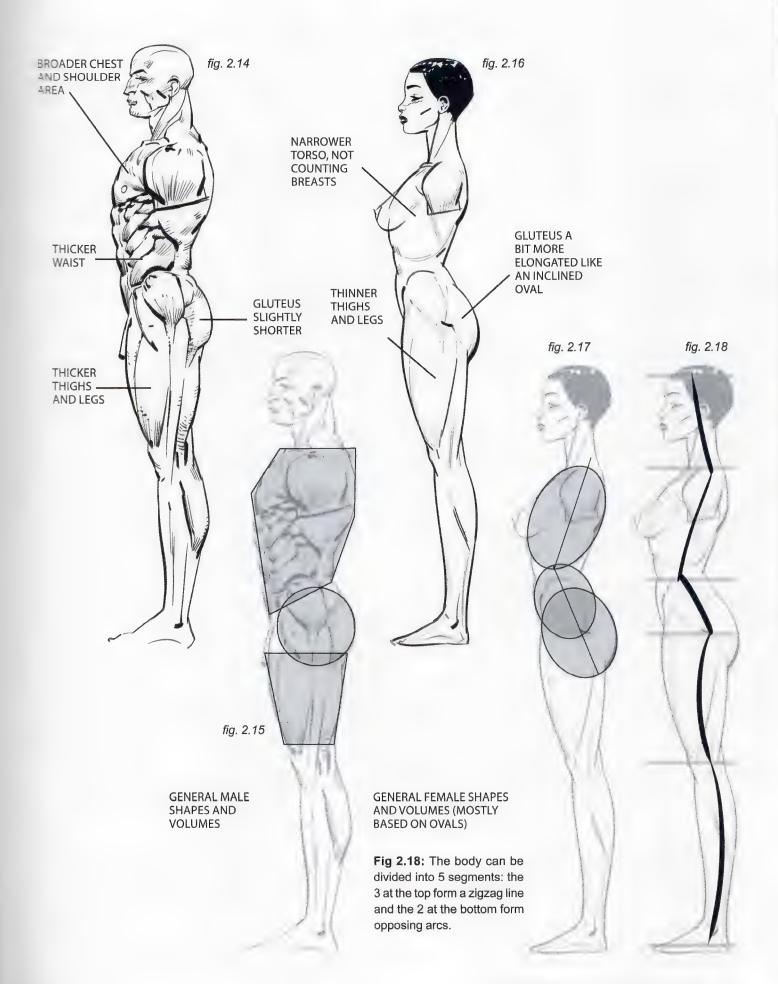
- 5- Brachialis anticus
- 6- Pronator teres
- 7- Supinator longus
- 8- Flexor carpi radialis
- 9- Extensor carpi radialis
- 10- Gastrocnemius (calf)
- 11- Tibialis anterior
- 12- Pectoralis major
- 13- Latissimus dorsi
- 14- Serratus anterior
- 15- Serratus magnus
- 16- Rectus abdominis
- 17- External oblique
- 18- Gluteus medius
- 19- Tensor fasciae latae
- 20- Gluteus maximus
- 21- Sartorius
- 22- Rectus femoris

- 23- Vastus lateralis
- 24- Vastus medialis
- 25- Patella (kneecap)
- 26- Infraspinatus
- 27- Teres minor
- 28- Teres major
- 29- Triceps outer head
- 30- Triceps long head
- 31- Gracilis
- 32- Iliotibial tract
- 33- Biceps femoris
- 34- Semitendinosus
- 35- Peroneus longus 36- Extensor carpi radialis brevis
- 37- Extensor digitorum
- 38- Extensor carpi ulnaris
- 39- Extensor of the thumb
- 40- Flexor carpi ulnaris





040 • Characters in Perspective



Besides dynamics, proportion, and anatomy, it is important to understand the basic volumes contained within the human figure, a these become key elements in determining the correct shapes, lighting and perspective to draw.

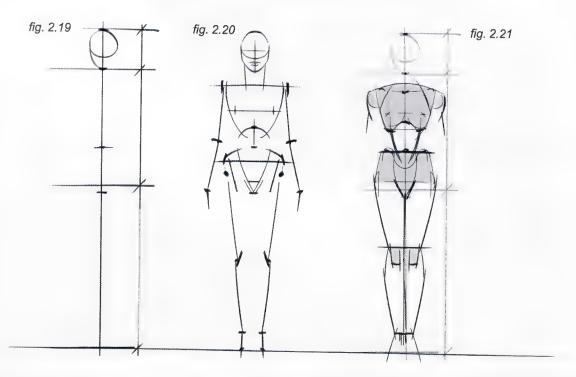


Fig. 2.19: A common height for a standing female figure is "eight heads," meaning that total height equals the height of the head multiplied by eight. To start, divide a vertical line into eight equal parts. But remember, each body type is different and the height "in heads" is not always eight.

The mid-point of the figure's total height coincides with the area just above the crotch.

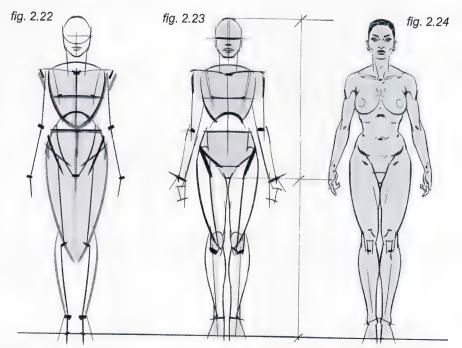
Fig. 2.20: Next, define the points where the torso, hips, knees, ankles, shoulders, elbows, and wrists are.

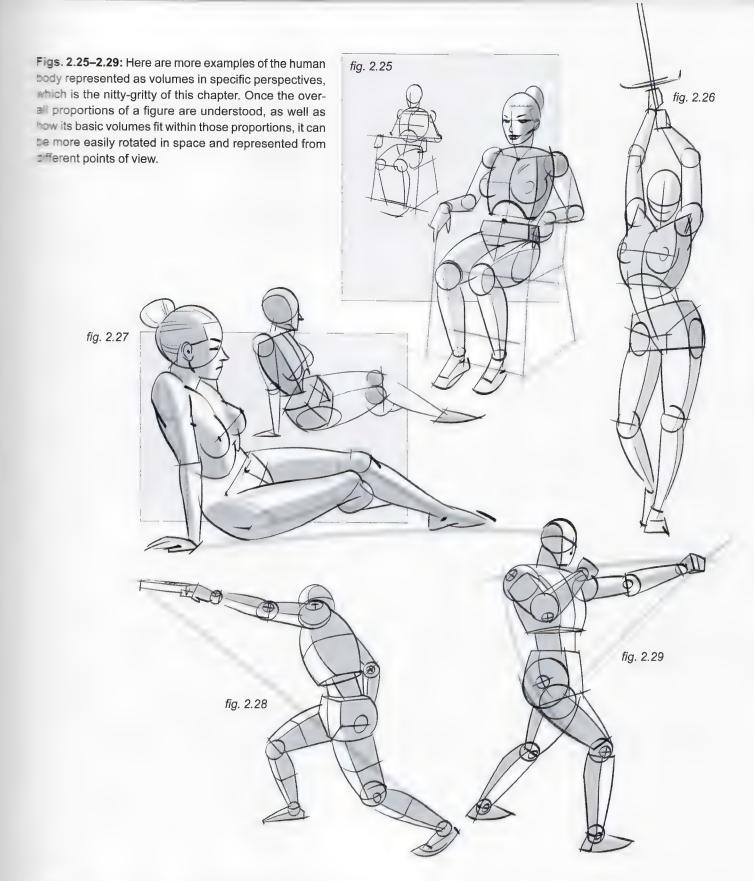
Fig. 2.21: Define the volumes bordered by these body landmark so that the figure starts to take proper shape.

Fig. 2.22: Use a volume like this inverted teardrop shape (shade gray) to define the shape of the hips and thighs.

Fig. 2.23: It is time to define the legs and arms...

Fig. 2.24: ...and then to do the final render of the character.



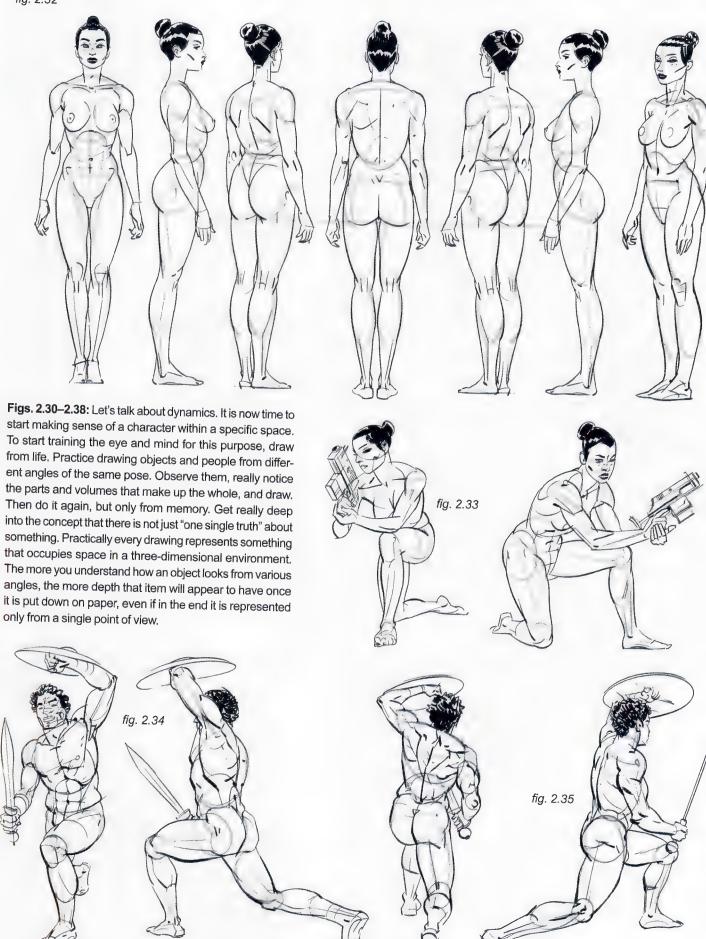


Remember to pay close attention to people and objects in everyday life. Once the technical aspects discussed here are understood it is important to continue to attend life-drawing classes as much as possible. It is very helpful to observe and draw subjects from different angles as they hold the same pose.

Your understanding of depth and volume will increase, and you will start to create a visual archive in your memory, which in turn will aid your power of observation and improve your drawings. We live in a three-dimensional world and it is important to use this sense of space and volume in our work.



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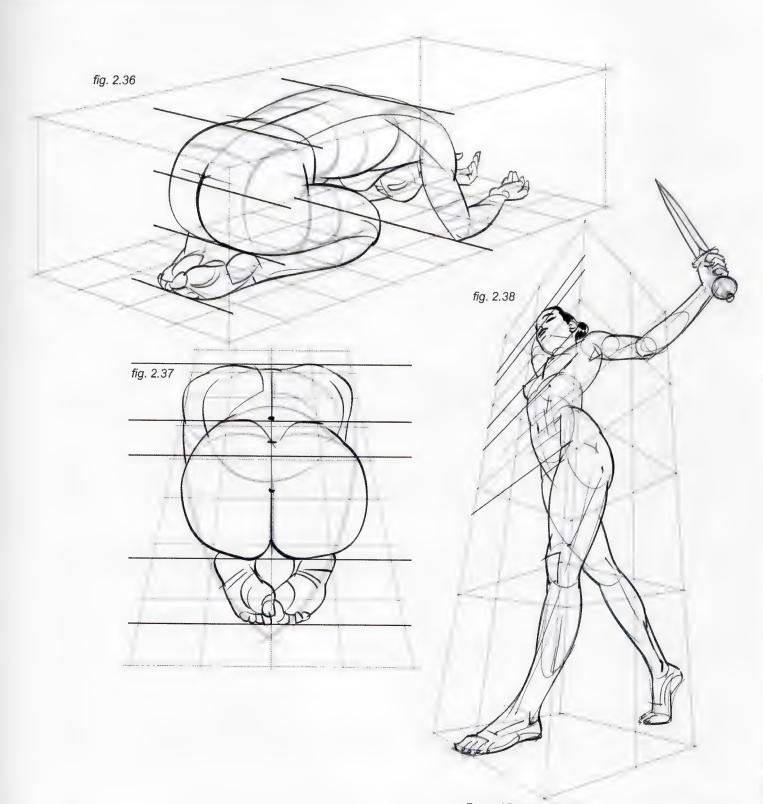


As mentioned earlier, there are three crucial concepts to keep mind the moment you start to draw characters: perspective, dynamics, and volume.

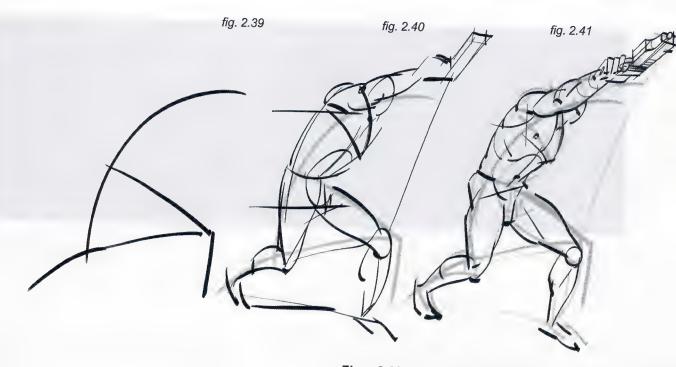
Ahether within the confines of a specific environment, with its defined perspective space and vanishing points, or when the character is isolated from any of these circumstances, like a body floating in space, the figures always need to obey the basic rules of perspective. A character has structural lines, or points that are aligned in such a way that they do in fact form lines, like the line

that goes from shoulder to shoulder, knee to knee, hip to hip, or the two points at either side of the base of the rib cage. These lines need to converge to their own vanishing point.

How exaggerated or dramatic the perspective looks depends again on whether a longer or a wide-angle lens is used. I recommend reserving the use of wide-angle lenses for the most dramatic moments within a story, whether they involve extreme action or extreme drama.



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Figs. 2.39–2.43: These drawings developed as follows: dynamic lines followed by a quick sketch over them to establish the general shapes and volumes, and finally a more formal, yet energetic drawing.



When establishing the **dynamics** of a drawing (either from imagination or a live model) it is so easy to play it safe and to water things down in the process. Train yourself to push shapes and dynamics; you can always pull back from there. Experience the joy of channeling and transforming all of your energies into drawings on paper. Have a good time, erasers exist so no need to panic.



Eventually and naturally the tendency to "normalize" things takes over, to make them "more real." Remember the goal is to make the audience vibrate through what is on that piece of paper—a piece of paper that you as an artist have transformed into an experience.

So for now, while practicing, just go for it.

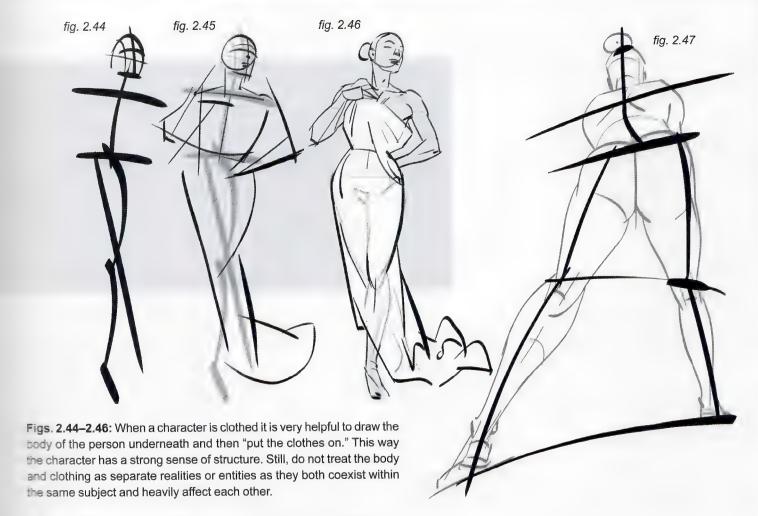
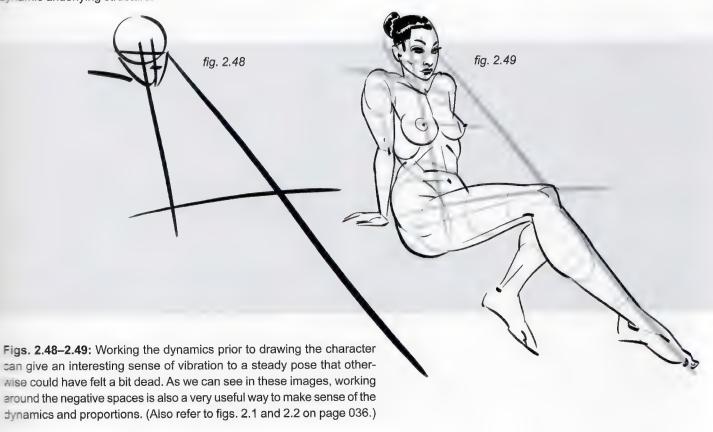
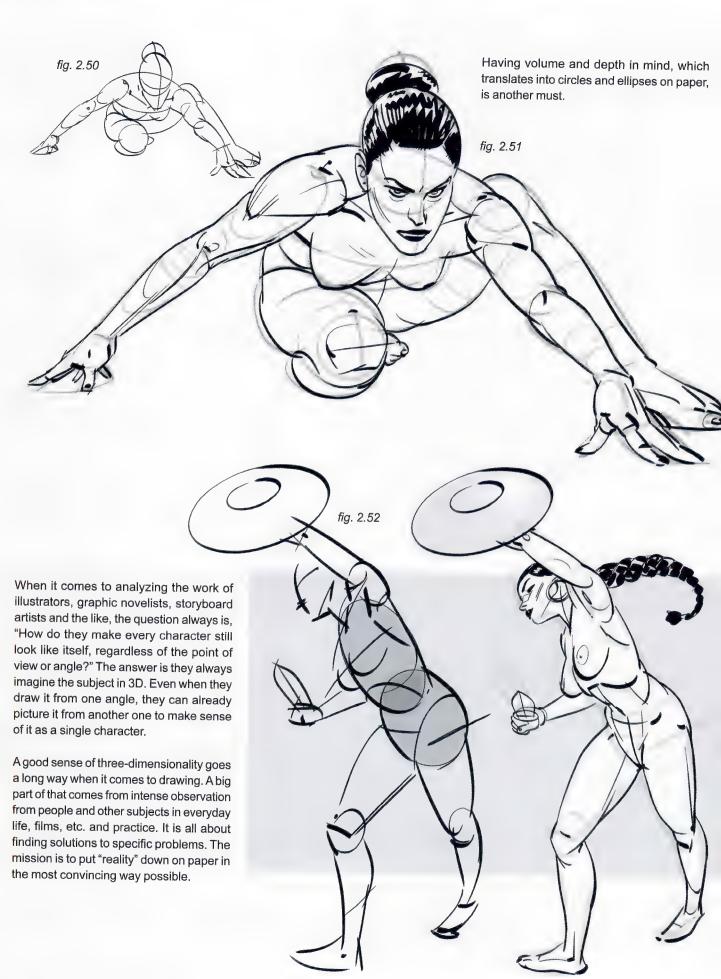
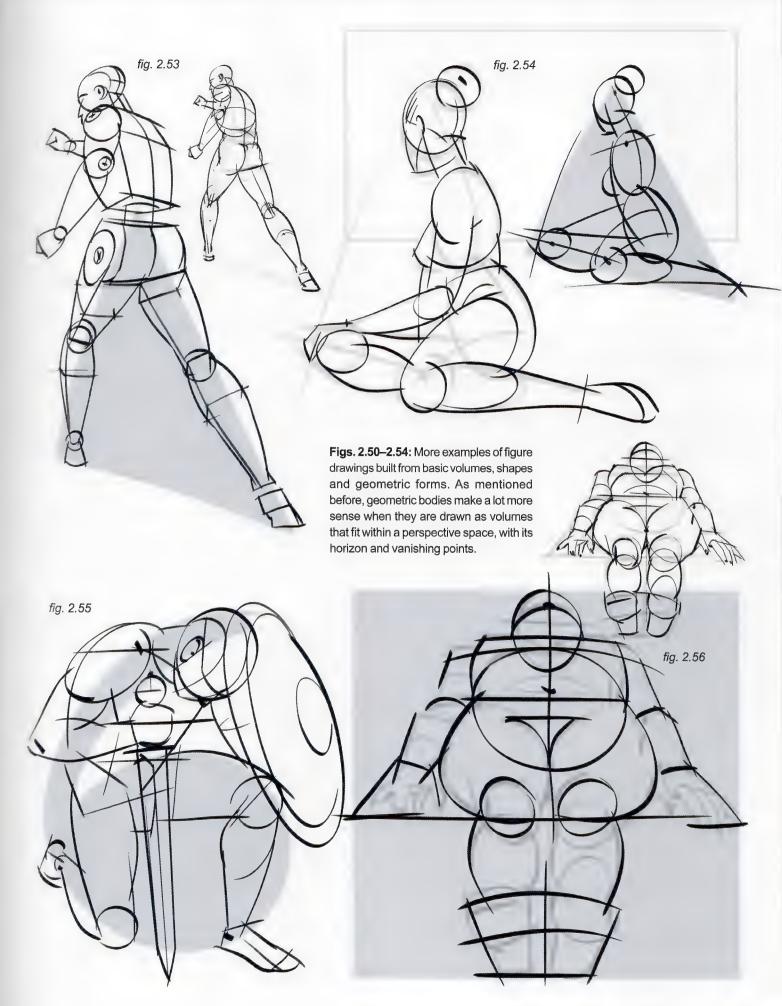


Fig. 2.47: This is a straightforward example of action informed by a synamic underlying structure.







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Sometimes only by moving the camera around a bit we can get much more dynamic angles (compare with fig 2.48 two pages before). This can give us the opportunity to create interesting foreshortening that immediately establish a more cinematic, geared to impact, new image.

Again to resolve this type of situation successfully we will first make sure we understand the perspective space our character is moving within (fig 2.57, top right).

fig. 2.58

fig. 2.57

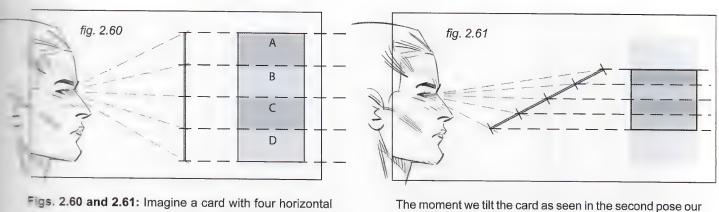
fig. 2.59

Fig. 2.57: After that we will constantly work the body as masses of volume that can be next to one another or superimposed as they come closer to our eye (see how specifically the arm and hand have been worked out this way, with ellipses representing the volumes of arm, fore-

...to then step it up to a final drawing (fig 2.59, bottom right, as well as detail to the left) in which we made sure lines are not just flat elements on paper but the representation of the outlines within which the masses that make up the body are contained.

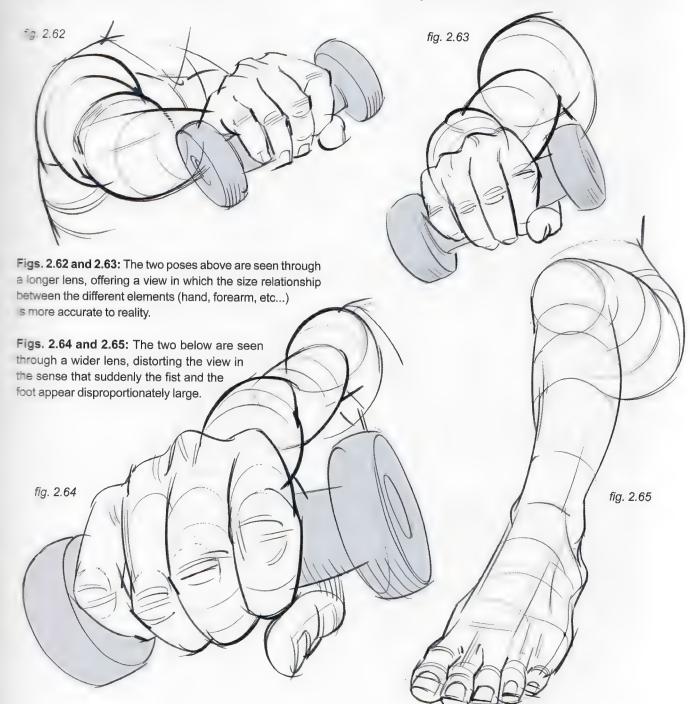
arm and hand, and all the anatomy within...

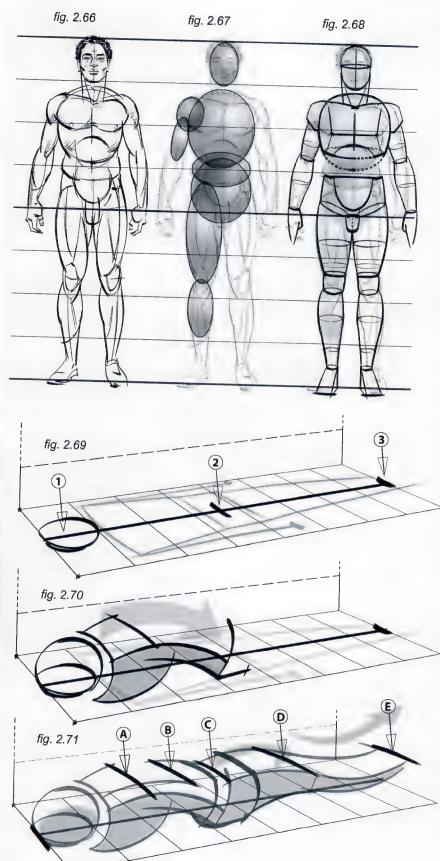
052 • Characters in Perspective



Figs. 2.60 and 2.61: Imagine a card with four horizontal strops of different values (a, b, c and d), when this card is a solayed vertical in front of our eyes we will see the height of all stripes as high as they actually are.

The moment we tilt the card as seen in the second pose our perception of the strips' height will be different, as if all of them had suddenly shrunk. That's what happens when we see objects in a foreshortened manner.





Before going any further on integrating characters in actual perspective spaces, let me say that all of these theories must be complemented as much as possible with a good, persistent routine of drawing from life, either with proper models or just spontaneous poses in the street, at the beach, or anywhere you can practice without annoying anyone.

Fig. 2.66: Let's take a typical athletic figure, 8 heads tall. First, it is important to understand the body in a simple upright position based on its proportions and volumes. Then envision the body and its parts as a group. Imagine seeing it from various points of view, as might be required by a comic book panel.

Fig. 2.67: Knowing and understanding the volumes that form the body of a character is essential. When creating a view of a three-dimensional body in perspective, there needs to be a very clear idea of the masses and volumes that compose the body (represented here by these very basic balloon shapes).

Fig. 2.68: The balloon shapes have been refined into more defined, box-like pieces.

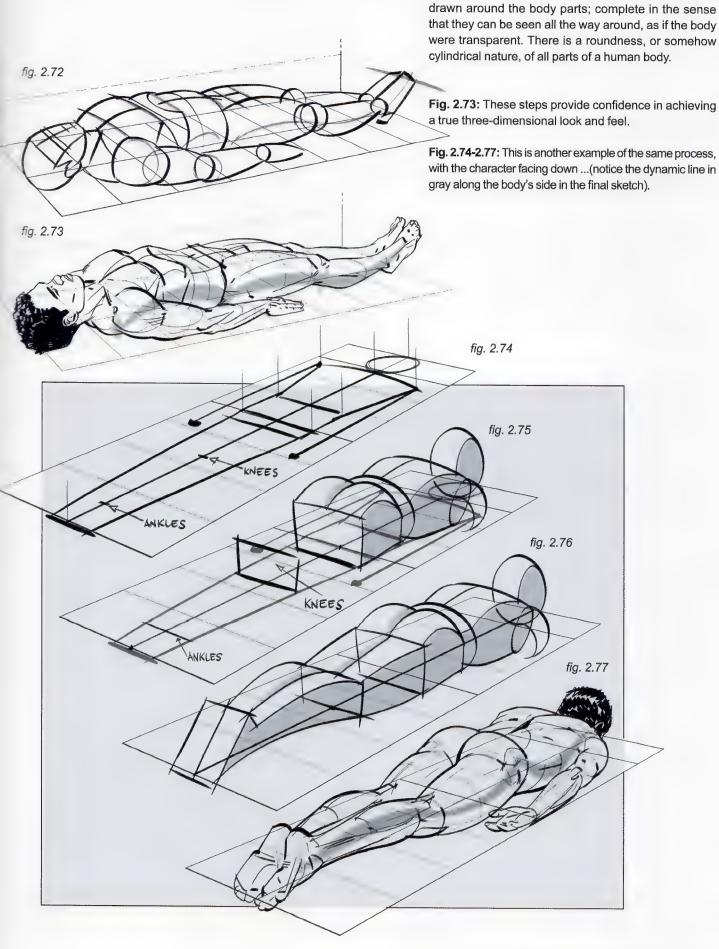
The three principles of figure drawing are *perspective*, *dynamics* and *volume*. Here are the steps to draw a character stretched out and face up (figs. 2.69–2.73).

First, draw a perspective grid that will contain the character and that matches the surrounding environment; otherwise the character will not appear to belong in the image or panel. Do not, for now, limit the height of the space or box containing the character; have a sense of freedom this way and pay more attention to the body feeling correct as an overall volume.

Fig. 2.69: On the grid, draw a quick flat "blueprint" of the whole body. Draw the points of contact of the head (1), the butt (2) and the feet (3) on the grid according to the proportions already studied. Everything else in the drawing will need to fit in with these three key points.

Fig. 2.70: Draw the head, torso and hips in volume, describing the curve seen in fig. 2.18 on page 041.

Fig. 2.71: Draw the legs, again counting on the curved dynamics already mentioned. Do not exaggerate these curves; keep them graphic, but reasonable. It is very important that structural lines like parallels A–E converge to the same vanishing points as the perspective grid.



Figs. 2.72: At this point, complete rough ellipses were

Fig. 2.78: Something to pay a lot of attention to when drawing characters in a foreshortened perspective is the fact that most of the time we view other people in an upright, mostly frontal, position. That informs our most common understanding of how a human body looks.

Fig. 2.79: When observing a person from an unusual point of view, we sometimes try to see what we "know" instead of what we really see. In other words, when looking at a foreshortened

character our brains 'see' a more elongated one, as though it were standing up (as it is a more usual every day case). That is why it is so important to keep a strong sense of the body's perspective matching the surrounding environment.

Fig. 2.80: If you were to draw a model stretched out in front of you, observe that the totality of the body on the floor is a lot closer to a perfect square than one would assume after a quick glance.

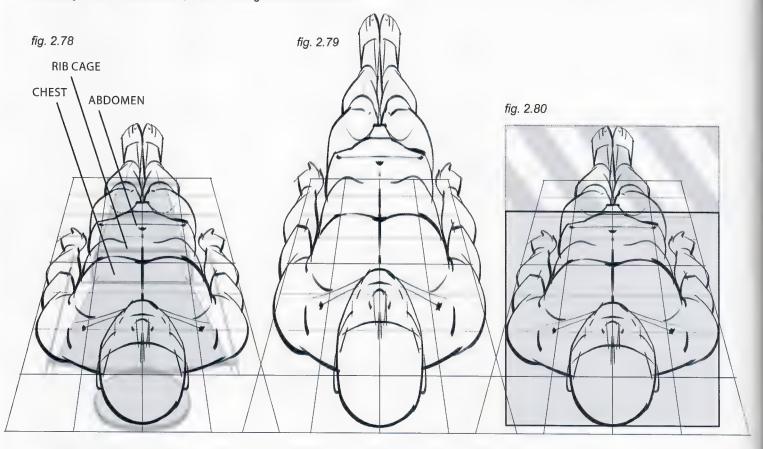
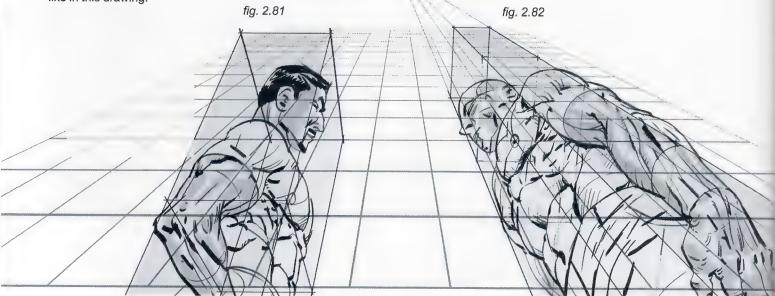
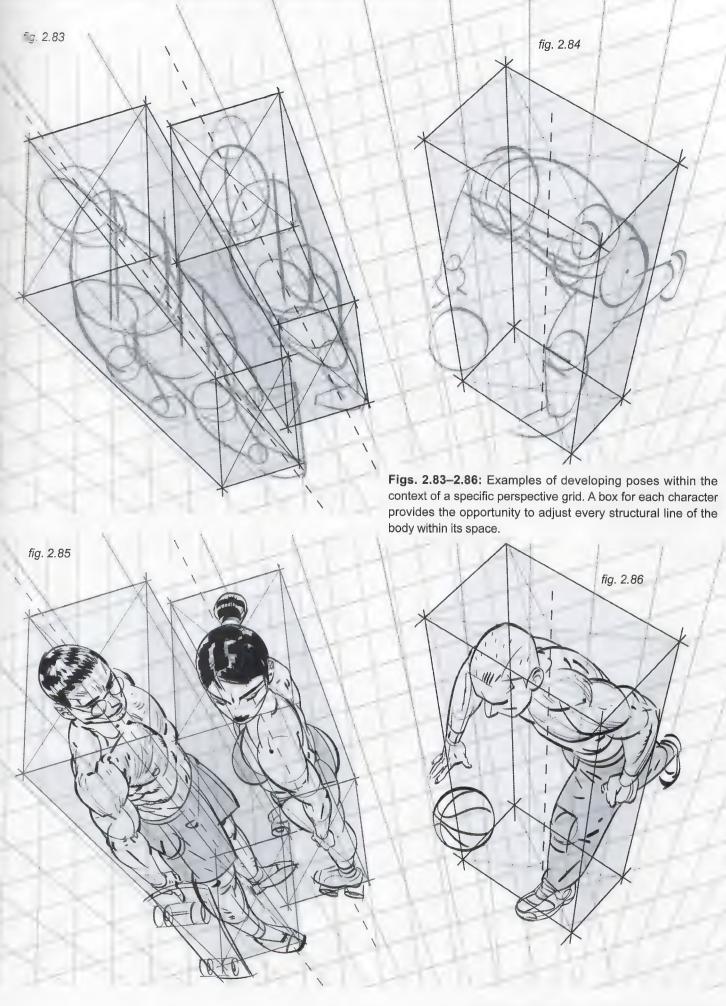


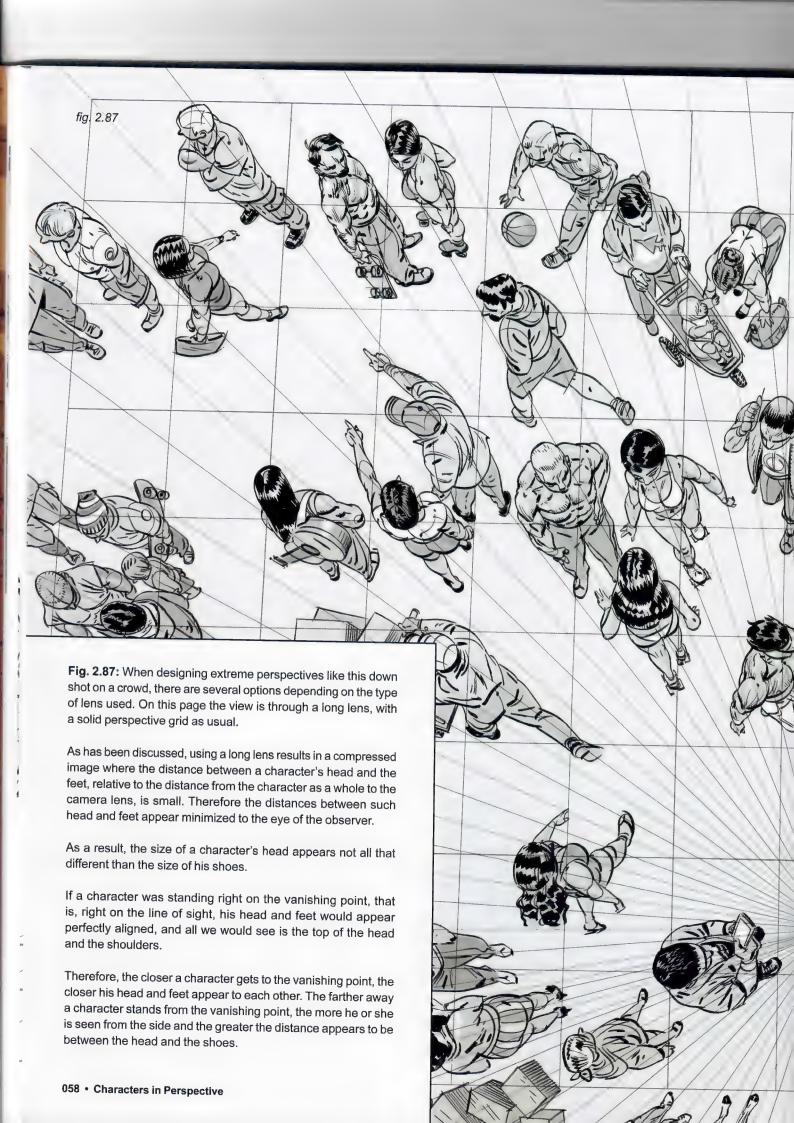
Fig. 2.81: In the same way, wrestling the character into a point of view that looks more familiar and somehow more "correct" can end up disconnecting it from its surrounding environment, like in this drawing.

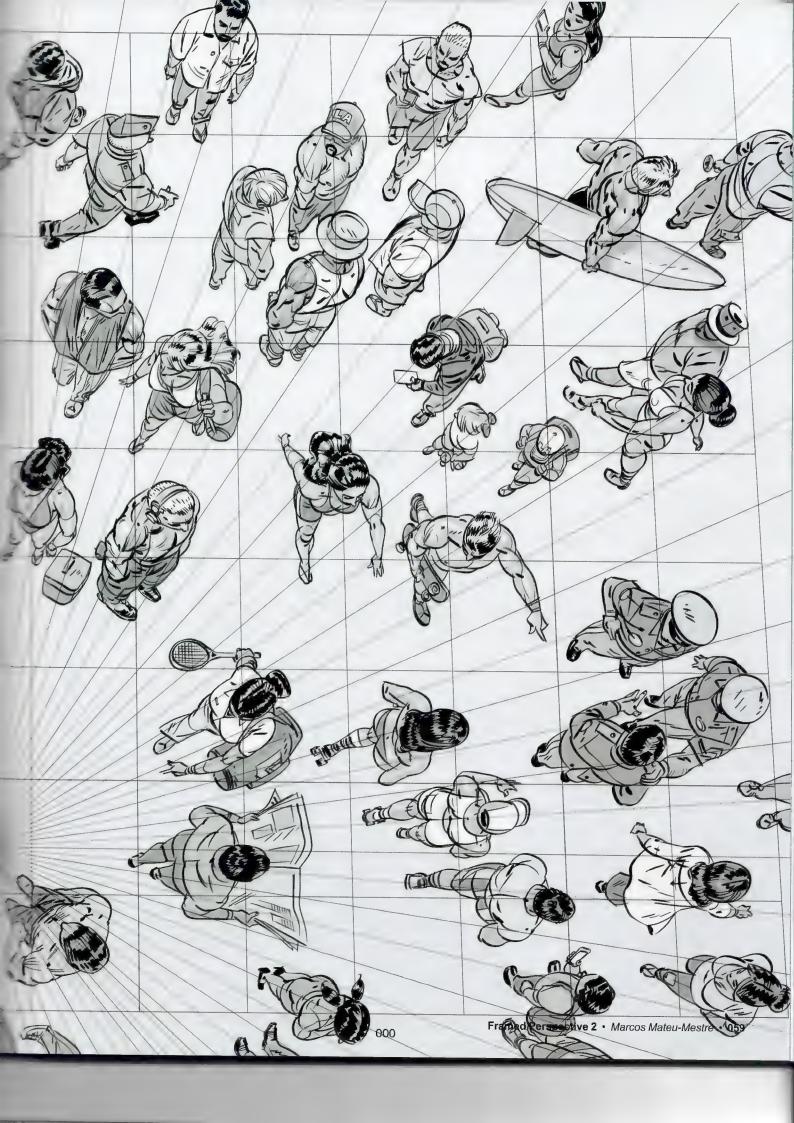
Fig. 2.82: This character is drawn in a perspective that matches the environment.





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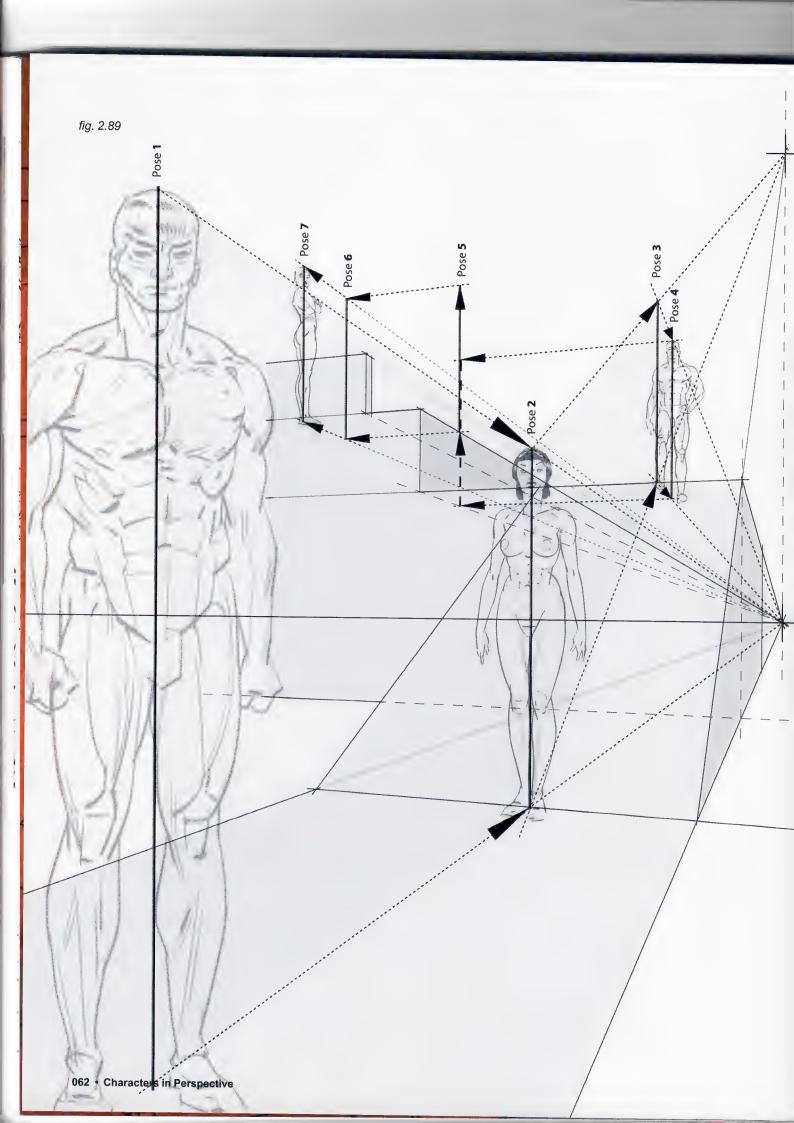


Fig. 2.89: To move characters around within a perspective setup, simply establish the size of the character with a vertical, or height marker, at a specific point within the scene. Choose the one point that is key in the development of the scene to make sure the character works perfectly where it matters the most. From there, literally slide this height marker around using the necessary vanishing point, as seen in this example.

Notice in poses 4 and 7 the characters are partly hidden by either the floor (because of the upshot view in pose 4), or the railing (pose 7).

Also, when drawing characters of the same height on the same flat horizontal ground plane (as in poses 1 and 2) the horizon line always coincides with the body at exactly the same point (the crotch in this example).

Fig. 2.90: When moving characters around the same floor plane, it is important to account for the unique peculiarities of each one. After establishing the standard height of a standard character with a vertical line, then adjust to the different poses: Pose 8 the character is jumping, pose 9 is sitting, pose 10 is walking, pose 11 is wearing high heels and the guy in pose 12 is a head taller than the rest.

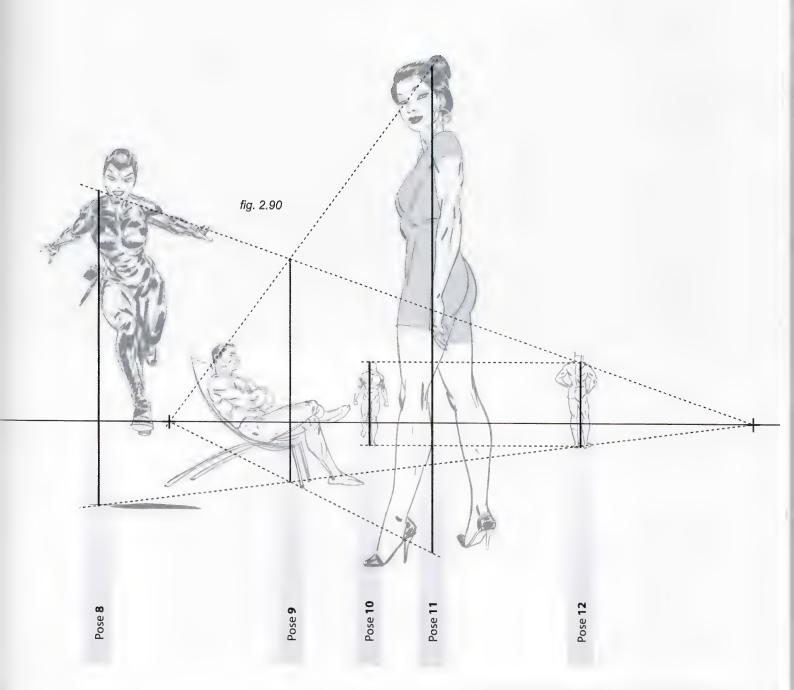


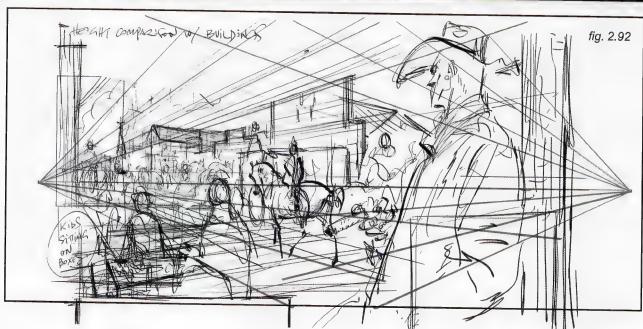


fig. 2.91

Fig. 2.91: In this illustration, there was the need to get the size of each character right depending on height, distance from the character to the camera, and placement of a character on more elevated ground. The size-relationship between people, houses and horses had to be established as well to make sure all these elements feel solidly placed on the general ground plane.

Fig. 2.92: As part of the creative process, here is the first sketch I did for this piece. Although I kept the basic idea for the final illustration, I discarded this specific approach because the vanishing points are so close together that it gives the image a wide-angle lens feel that I did not want.

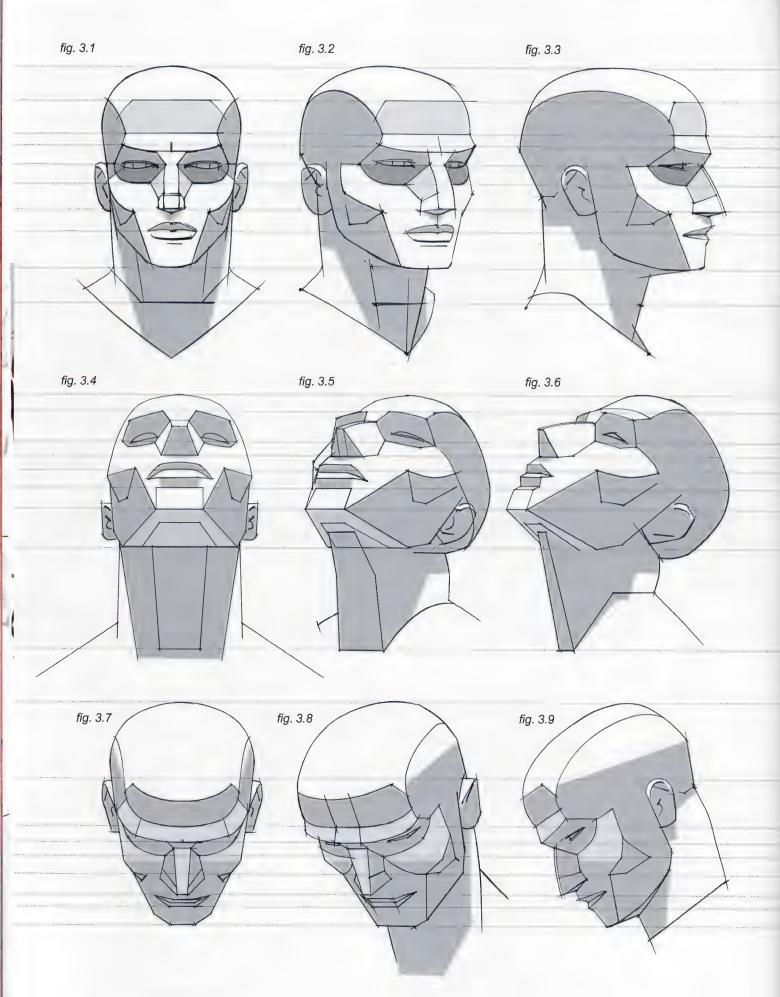


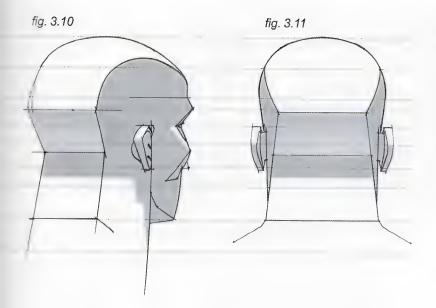


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SHADOWS ON CHARACTERS





Figs. 3.1–3.11: This book has already covered shadows falling on objects, now let's study the effect of light on the human body, starting with the part most featured in illustration work of any nature: The head.

These illustrations use a geometrical simplification of the head, all the better for perceiving it as an object. Such simplification makes it easier to organize your views and thoughts on how to proceed.

The light source is located directly above each of the 11 poses of this head.

Figs. 3.12–3.14: The shapes in these 3 poses have been simplified even more.

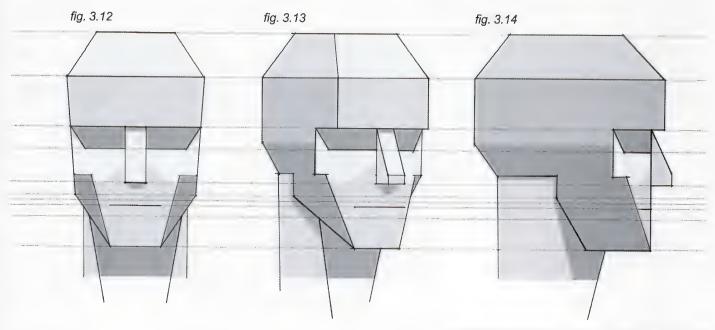
Drawing something is actually an exercise in translation. The drawing will never be "reality as-is," but rather an interpretation of what is observed and is believed to be crucial to put down on paper to communicate this particular perception of reality. This can range anywhere from a photo-real attempt to an extremely stylized abstraction, and all the steps in between.

What ends up on paper is a fantasy. In order to achieve an effective one that delivers what it needs to, it is important to synthesize what is seen in the model, to "own and digest" the information extracted from the observation process that precedes the actual moment of drawing.

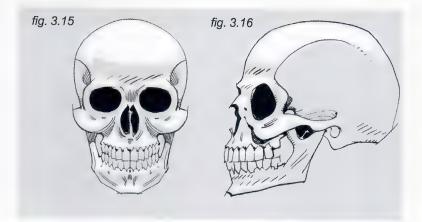
So simplify and get as organized and structured as possible in the mind's eye before drawing lines or masses of black (again, refer my previous book *Framed Ink*). This will only help you be more assertive and specific from the moment pen touches paper.

From here, go as detailed or as economical as possible in the execution, but whichever it is it must be done in a knowledgeable and conscious manner.

The process of simplification indicated on this page will help you achieve better results.



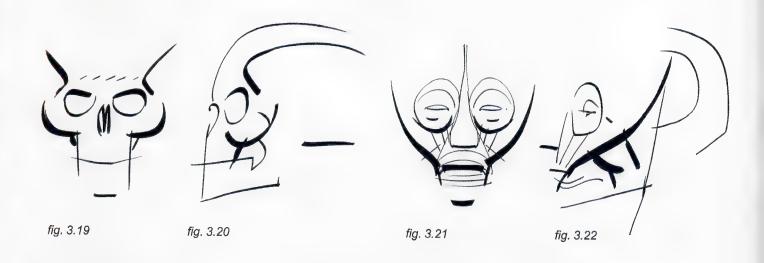
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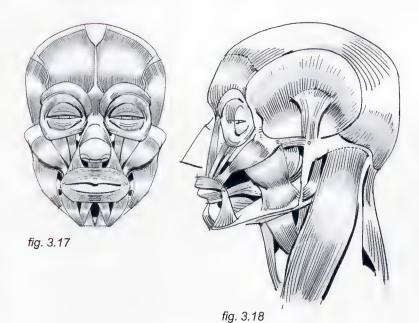


Before tackling how light visually affects the human body, it is important to have an idea of what type of landscape or geography the human body has. Let's take a look at it, starting with the head.

Figs. 3.15 and 3.16: Going from the inside out, these illustrations represent the skull...

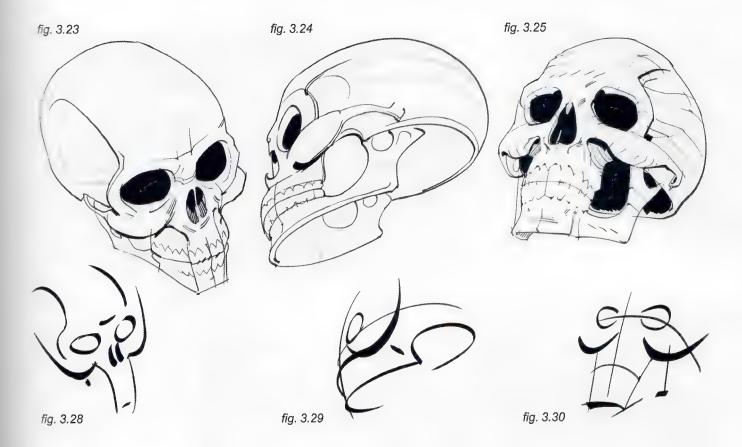
Figs 3.21 and 3.22: ...on which the muscle tissue is attached.





Figs. 3.19–3.22: The dynamics of the head and face shapes have been extracted and represented in these 4 sketches.

Observing all four drawings, realize that there are obvious similarities between the general dynamics of all the shapes, the powerful impact of the eyeball area and the contour of the cheekbones, in general, giving a lot of character to a face and head.



Figs. 3.23–3.25: Here are more examples of skulls...

Figs. 3.26 and 3.27: ...and muscle tissue, as seen from different angles.

Figs. 3.28–3.30, 3.31–3.32: These sketches show the dynamic lines that better describe the construction of these pieces and are those to which close attention should be given. Once the basics are right, then build a believable structure around them.

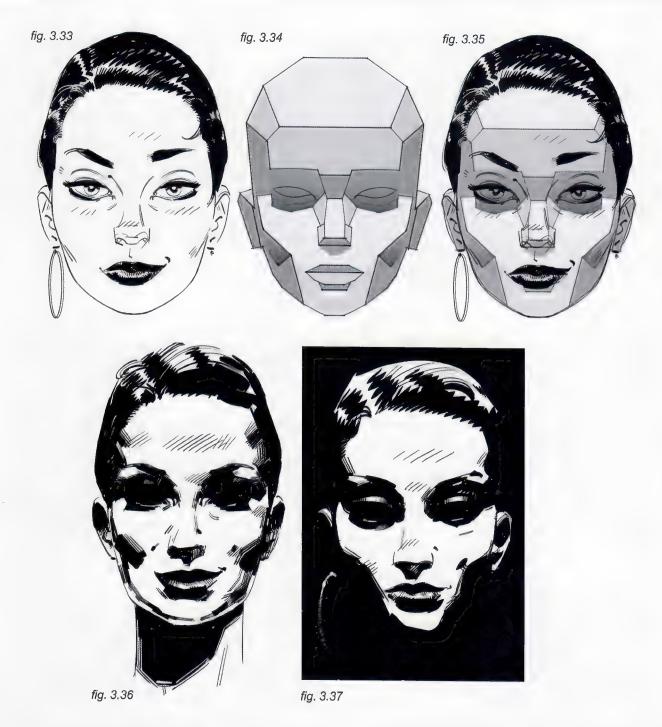
Observe on the following pages how all of this can be applied to lighting solutions.

fig. 3.26

fig. 3.31

fig. 3.32

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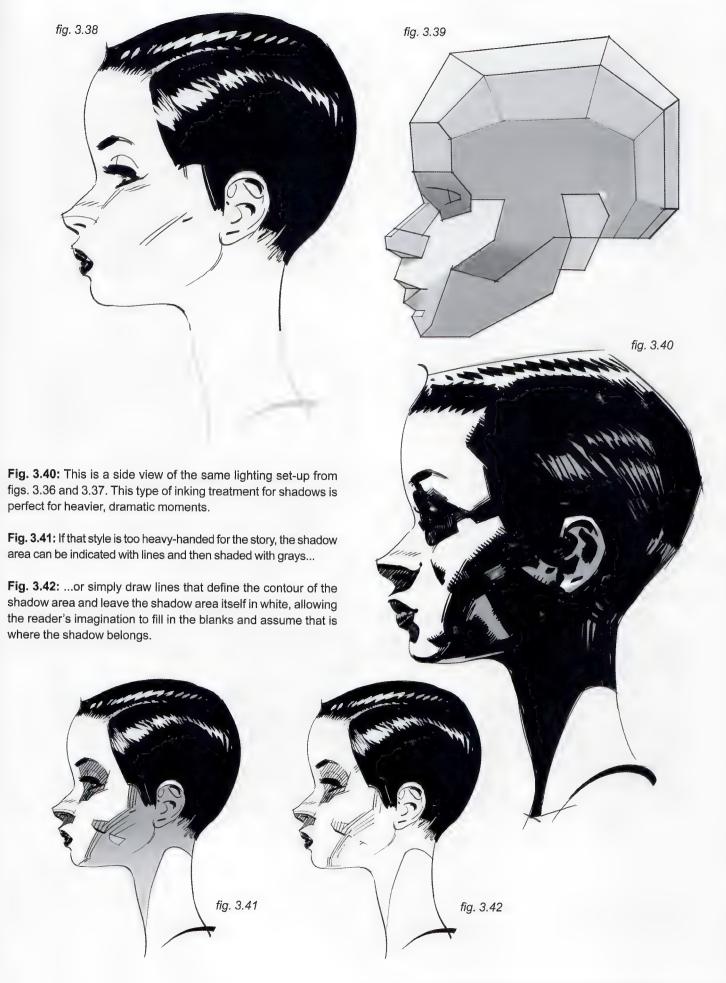
Lighting a face from directly above the head usually results in very dramatic lighting, especially when using black and white, which pushes the contrast to the very limit.

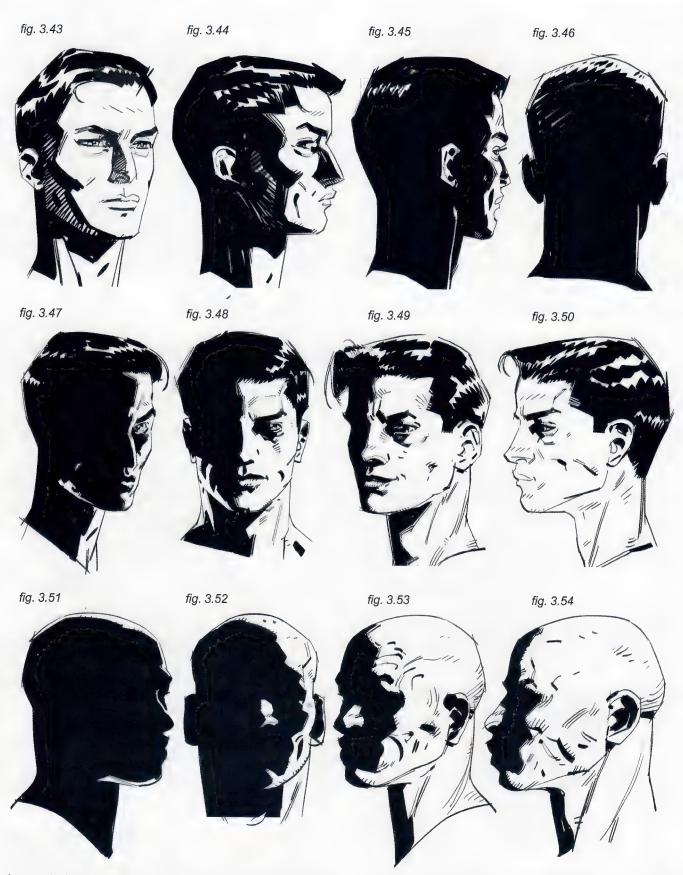
Fig. 3.34 and 3.35: The head made of flat planes shows a few shades of gray.

Fig. 3.36: What happens when this sense of volume is applied to the head and only black and white is used? Depending on the moment in the story, some details of the character's expression might need to be seen, so the solution is to throw a bit of light onto her eyes, just enough to see some detail. Otherwise, go for it and push the blacks like there is no tomorrow, use light to make a statement, turn this head into a virtual skull if need be.

In cases like this, be careful about the shadows on the lower sides of the face and chin. It is a woman's face and therefore these shadows should not look like a beard. One option is to add a bit of reflected light from below the face.

Fig. 3.37: Or push the blacks not only around her face and chin but also in the surrounding space. Here, pretty much all the blacks become one, as do the lit areas which now appear to be floating in the dark.





As seen in these turnarounds, it is important to pay attention and be consistent when drawing the same head from different points of view, while the light source remains constant. For this, the best approach is to start from reality-based images, like sketches from a model or photographs, and then make graphic statements

based on them, simplifying the shapes for a more direct, final look. When most of the face is in shadow, make a choice between creating a solid gray that allows more of the facial expressions to be seen or simply to make a bold black and white statement.

Lighting affects a whole location (see *Framed Ink* for the use of light in the composition of full images) but the examples on these two pages have been detached from their immediate surroundings, for now, to focus exclusively on the heads themselves.

Turn the page for examples of lighting that include the values of the immediate surrounding environment.



fig. 3.68



fig. 3.69



fig. 3.70



fig. 3.71



On the next three pages are some examples of how to tackle the inking of shadows on a character's head and face.

Figs. 3.67–3.69: Applying a rim of light on both sides of a head is a striking way to define the periphery or edges, making it the focus instead of the facial expression which is more commonly the center of attention (see fig 1.52 on page 034).

Three different solutions have been developed here. In fig. 3.67 the face's expression is more readable thanks to the use of a gray tone in the central area. Fig. 3.68 uses solid black ink for the central area with an overexposed (white) background, and fig. 3.69 has a solid black background, which brings up the side rim lights to a more prominent level.

Fig. 3.70: Lighting a head, a body, or a location from below offers a very unusual look at the object. Because light sources (sun, moon, streetlight, ceiling lamp) are usually located above the subject, the viewer feels unsettled about the anomaly of the situation. Hence the abundant use of low-angle lighting in horror scenes.

Fig. 3.71: A more graphic approach gives a rather spontaneous, hard-edged and chiseled look.



Fig. 3.72: Adding rim light to only one side of the face can provide a softer, mysterious, somehow more romantic look when combined with the use of gray on the face, making the drawing have a less harsh appearance.



Fig. 3.74: A merciless blast of light from the top-front exposes the rugged texture of weathered skin.





Fig. 3.73: A purely backlit silhouette helps to define a character by its unique contour or outline.

fig. 3.75



Fig. 3.75: A top-light coming in from one side creates this always-appealing triangle of light on the opposite side's cheek. This can be further enhanced by a rim light, adding to the complexity of the image.

fig. 3.76

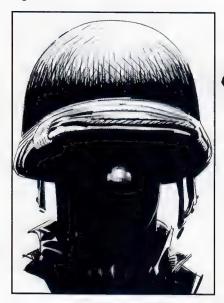




Fig. 3.76 and 3.77: A cast shadow from a helmet or a hat adds intrigue to a character's visual personality when the moment requires a bit of extra drama.







Fig. 3.78: Limiting the amount of surface exposed to the light source will do for a more minimalist approach...

Fig. 3.79: ...which can be pushed even further by cropping the image.

Fig. 3.80: Avoiding the use of shadows altogether can enhance intricate details, as is the case with this character's ornamental headdress.

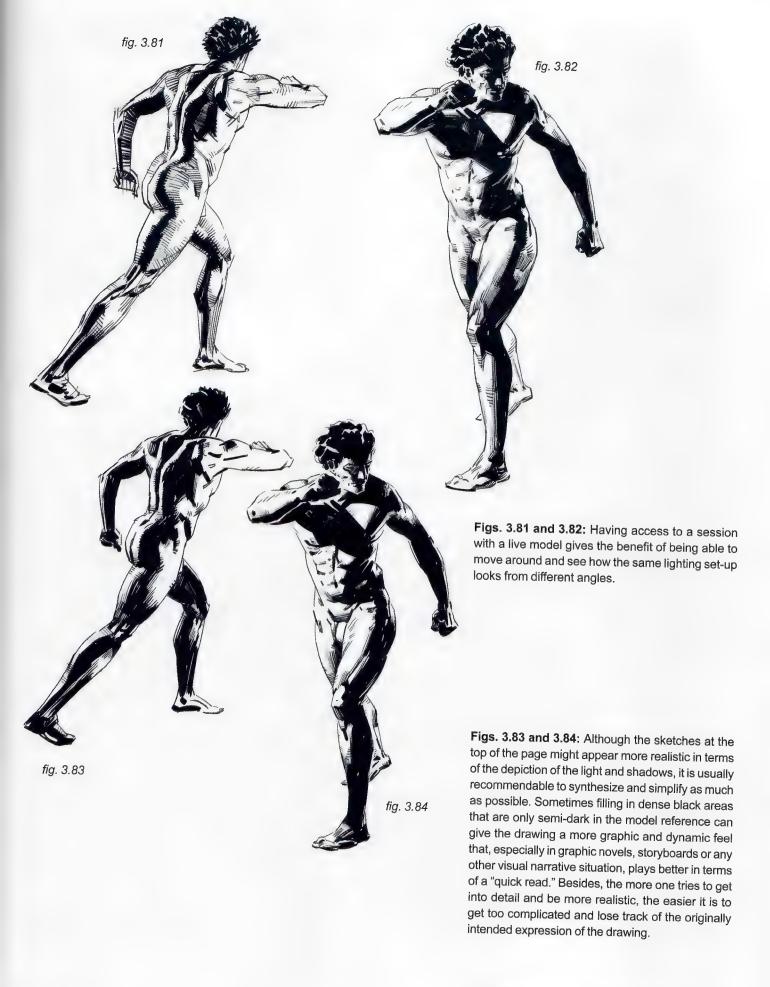
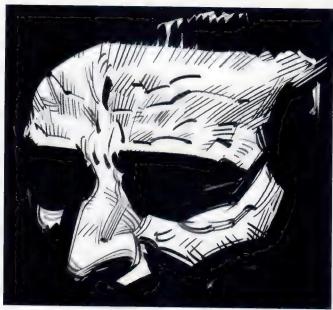


fig. 3.86



Figs. 3.85–3.88: Here are various close-up views of rendering and inking samples that deal with light and shadows—some tighter, some looser.

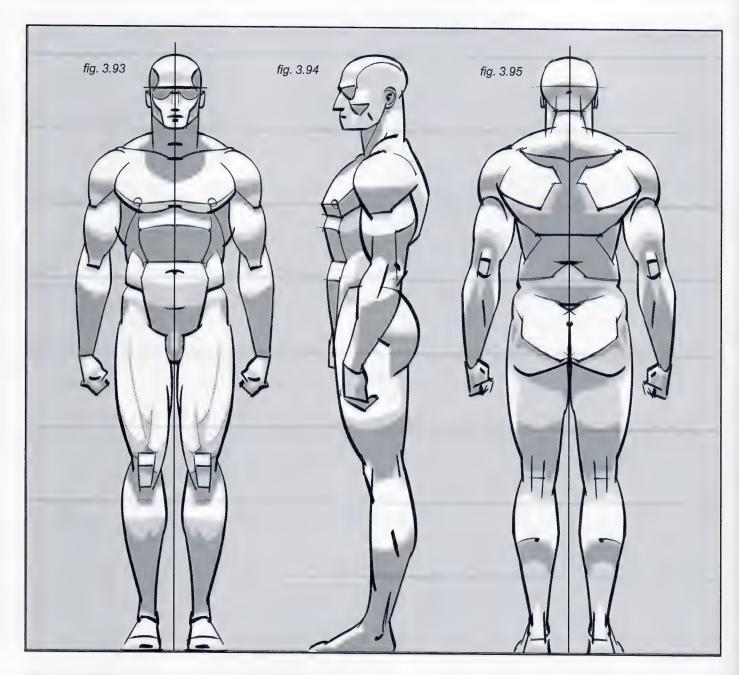
Needless to say each of us has a particular view, idea and personality that influences all of our work. There are as many possibilities and ways of doing this as artists in the world. This is just a suggestion of how to use ink in a way that not only describes masses of light and dark, but also helps define volume, texture and surface direction.

fig. 3.88



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Figs. 3.93–3.95: Regarding the effect of light on the human body, first take into account the bulk of the main shapes and volumes that constitute the body, and study the planes that these shapes form. By simplifying the intricacies of the anatomy, it is easier to understand how light impacts them, reflecting off the brightest areas and keeping others in shadow, depending on the position of the body and the direction of the light source. In the above examples, the subjects are top-lit.

The next pages show examples of how light behaves on male and female bodies while hitting them from different directions. The position and tilt of the light source is indicated by the cylindrical arrows.

Fig. 3.96: Light hits the subject from above and slightly from the front. It is always important to keep in mind a three-dimensional idea of the subject. In the little mannequin figure at the bottom, see how some planes get hit directly by light, sometimes casting

shadows on lower surfaces in the process (chin on chest) while other areas are left in shadow (under the arms and legs).

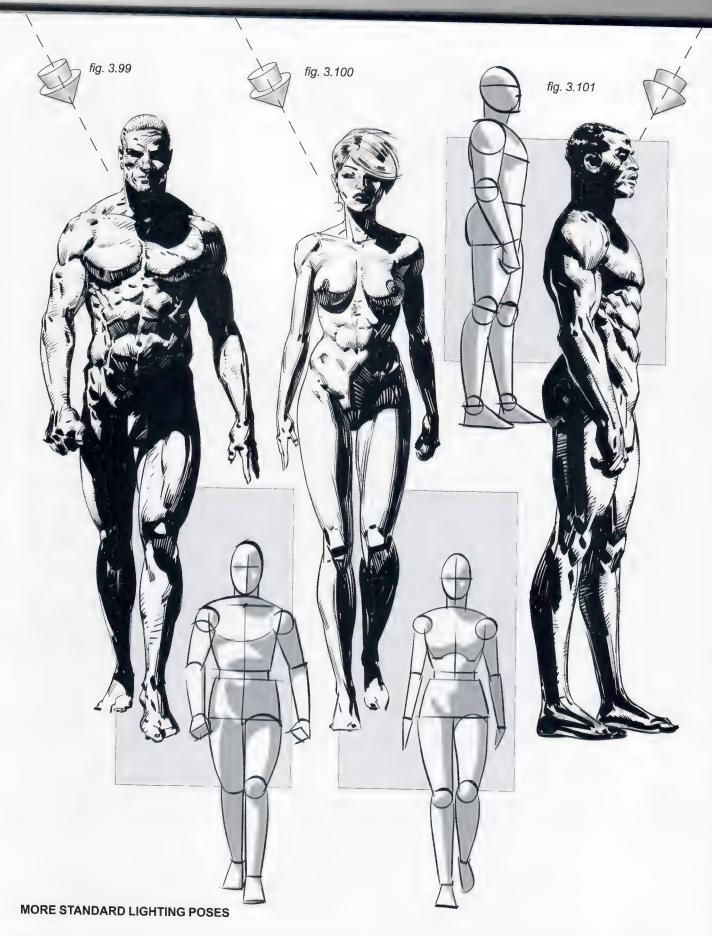
Fig. 3.97: The light source is still above the subject but is now slightly behind him, tilting forward. Most of his front is in shadow. The surfaces hit by light are the top of the head, shoulder, knee area of the right leg and the top of the feet (see also the little mannequin at bottom).

Fig. 3.98: The light is from the side, slightly from above and in front. Roughly, her left side is illuminated and her right side is in shadow. For this type of work the details need to be correct (although graphic!) based on observation of reality, live models, photographic reference or all of the above.

The shadow side can always be treated as solid black (more dramatic) or a lighter shade of gray (bottom).



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Figs. 3.99 and 3.100 receive top light from a frontal, diagonal direction. The planes lit are similar to fig. 3.98, but this time at a higher angle. Still, one of the sides of the character is left in shadow.

Fig. 3.101: Also getting hit with frontal, diagonal top light, but because of the camera's point of view, the character appears slightly backlit.

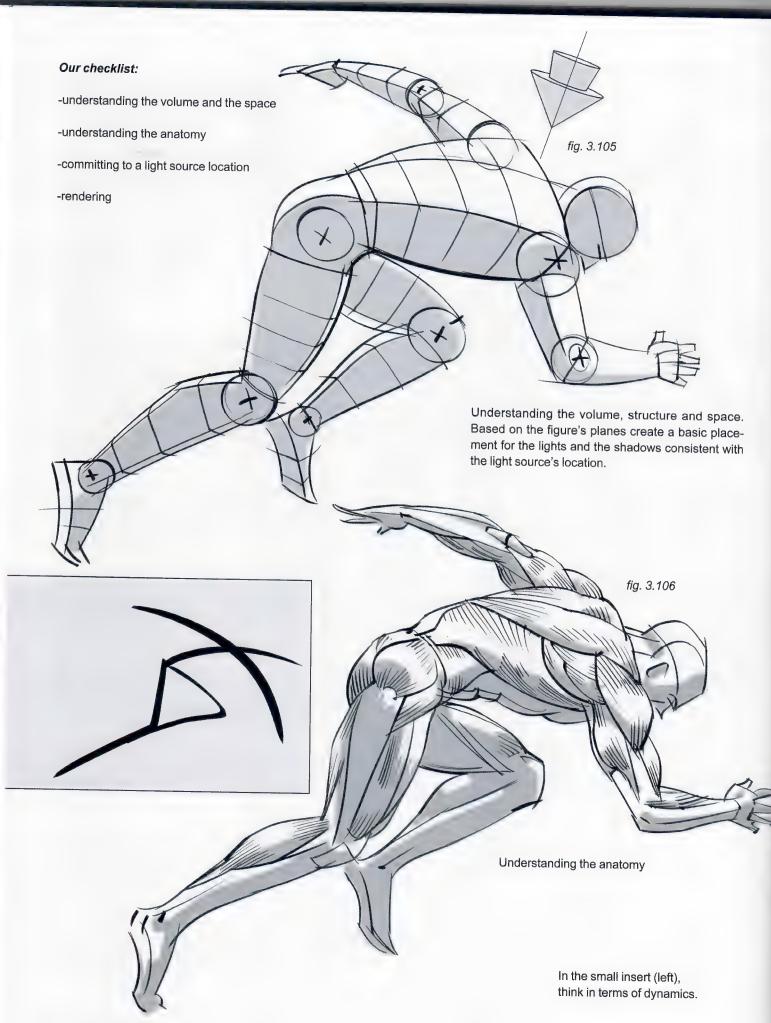




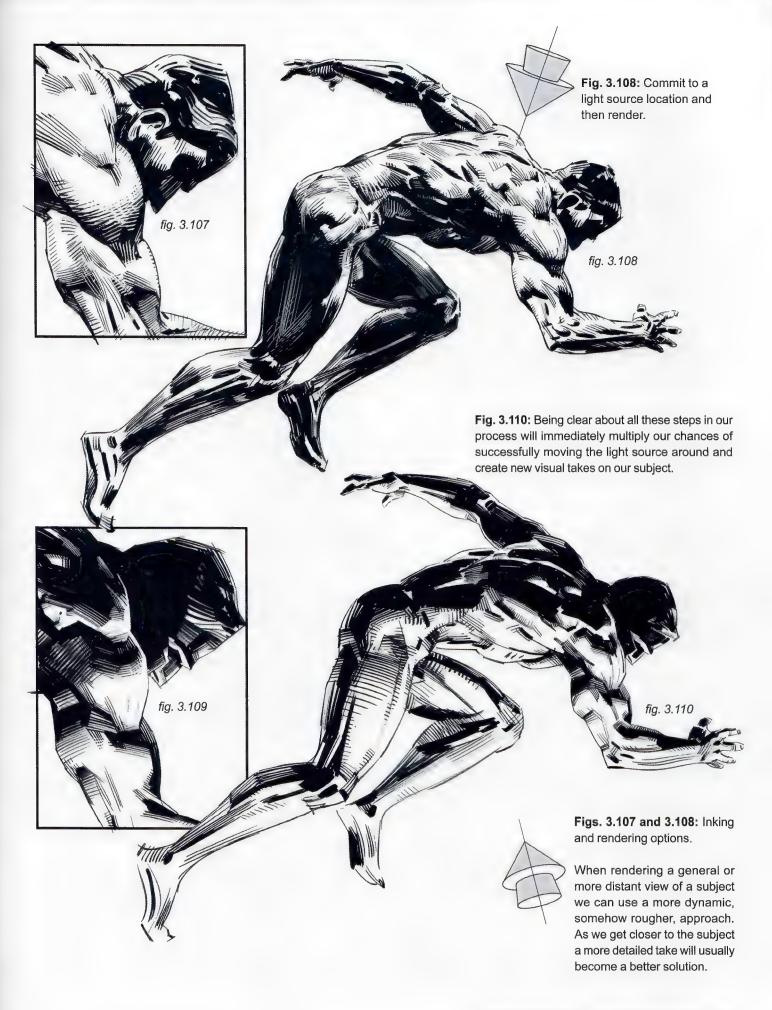
Fig. 3.102: Sometimes adding a slight sense of reflected light, or rim light, between the shadow area and the outline of the character provides the piece with a certain sense of air instead of a drier, heavier look.

Fig. 3.103: Also as a suggestion, when there are big heavy areas of dark, either go solid on the blacks or brush them in a way that keeps some of the white bleeding through, offering a somehow more casual, vibrant look. Always follow the direction of the muscles and the body surface to enhance the three-dimensionality of the figure.

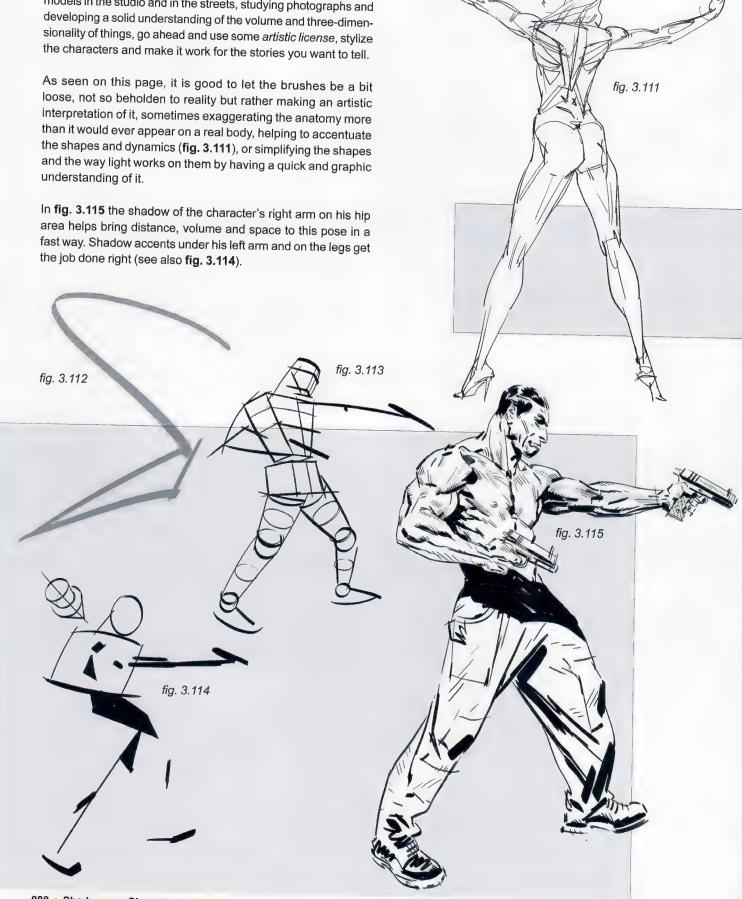
Fig. 3.104: Let's not forget that the subject's shadows can play an integral part of the darks of the full image, eliminating the outlines of the drawing altogether in the process, as explained in full detail in *Framed Ink*.

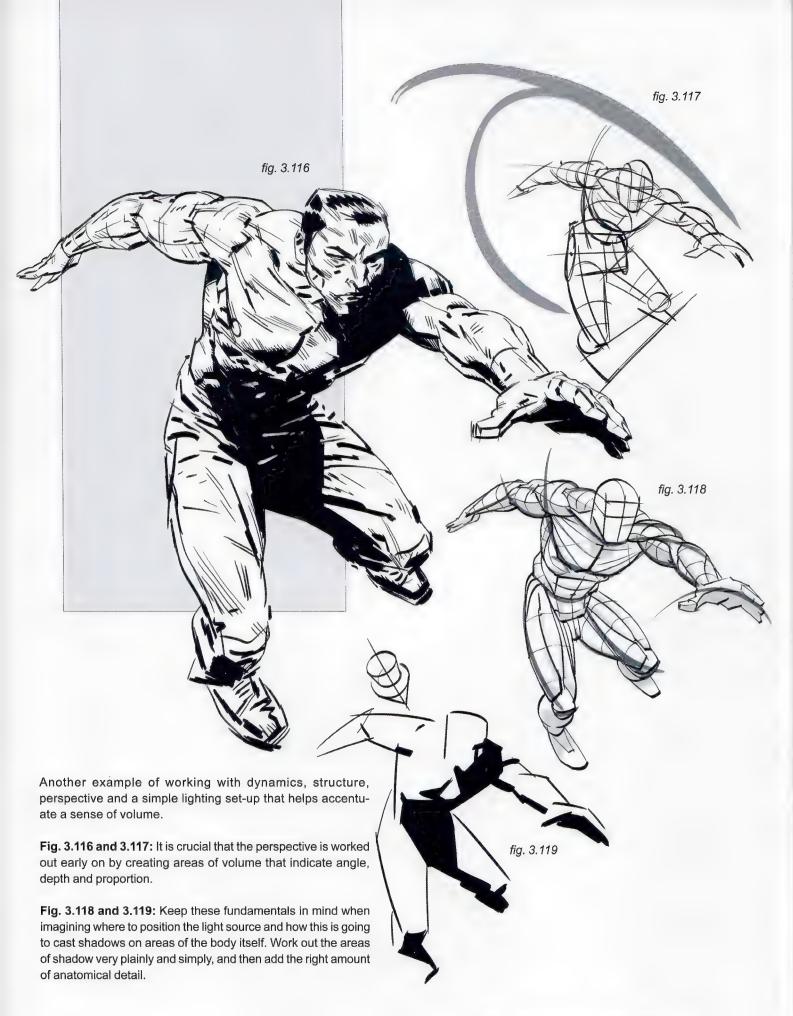


086 • Shadows on Characters



Up until now, we have discussed anatomy and lighting, the sense of dynamics, structure and perspective with a strong sense of proportion. After absorbing and practicing all of these, after observing reality a thousand times and doing sketches with live models in the studio and in the streets, studying photographs and developing a solid understanding of the volume and three-dimensionality of things, go ahead and use some *artistic license*, stylize the characters and make it work for the stories you want to tell.





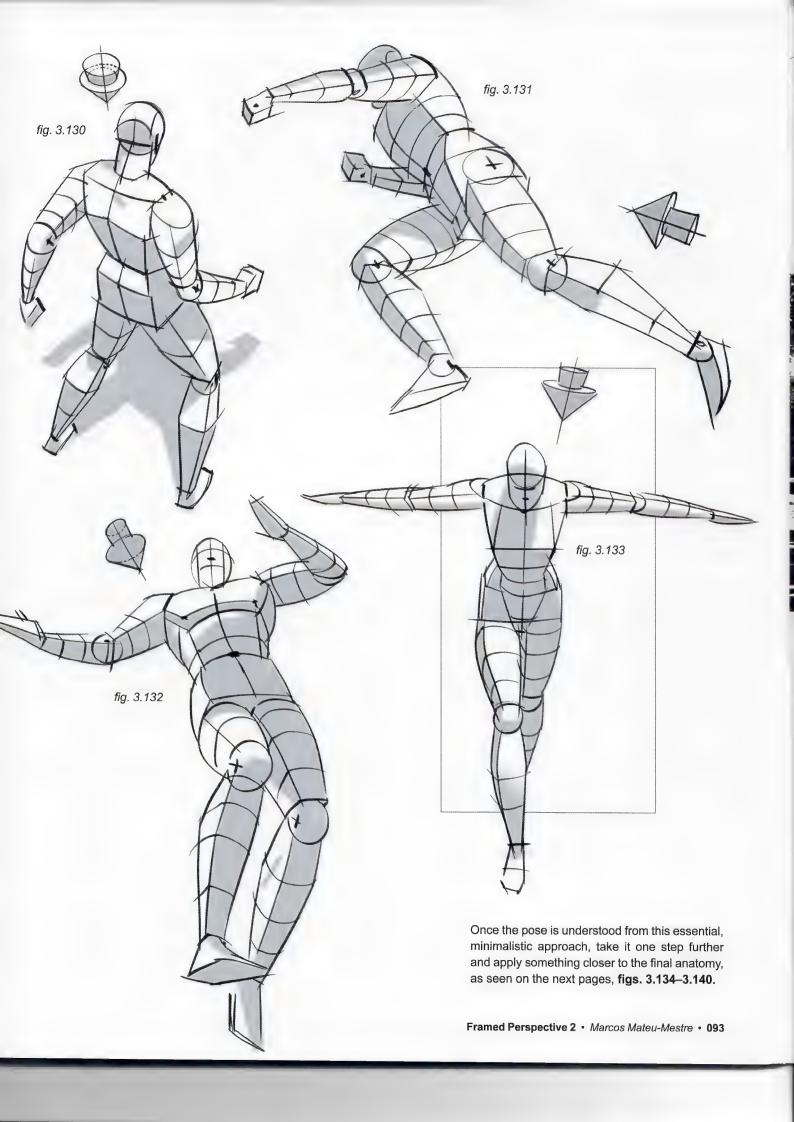


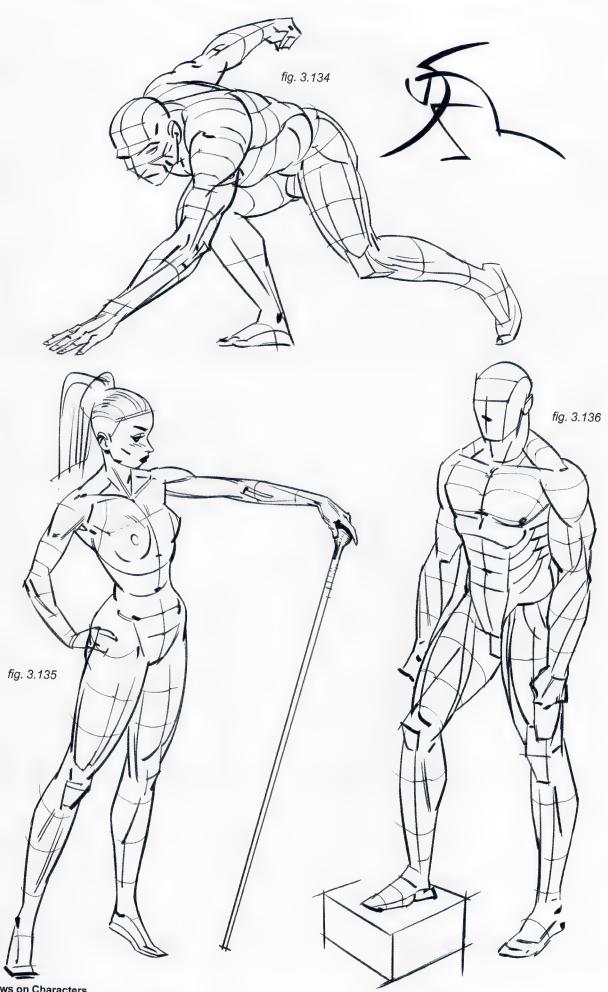


Figs. 3.123–3.126: A drawing that, although it begins from an understanding of space, volume, dynamics and anatomy, ends up as a loose and free interpretation of it all in order to achieve a more expressive feel, rather than a naturalistic and accurate one.

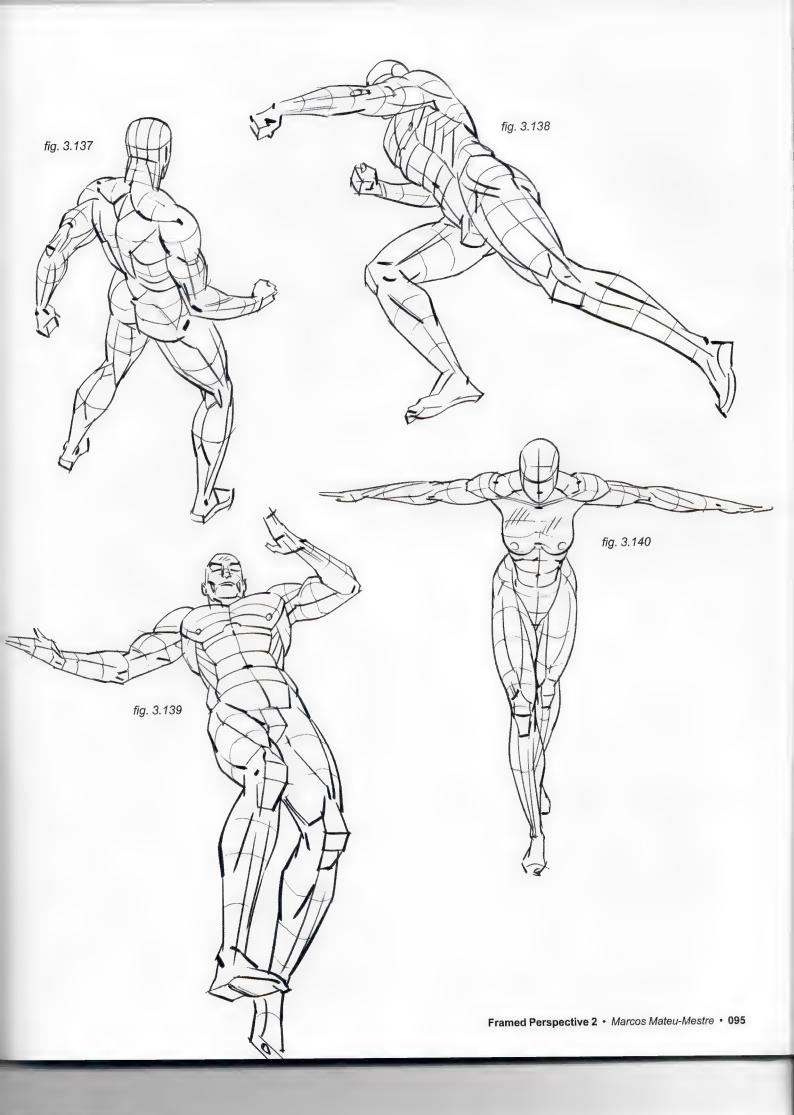
Figs. 3.127-3.133: Here are some figures that are more action-oriented. The starting "mannequin" has been simplified by making fig. 3.127 its planes structure boxier than before. Whether using a model or not, it is important to be aware of the planes that configure the character, and how each plane is exposed to the light or faces away from it. Starting off this way helps to keep the whole process graphic. Even if the end result is very detailed and realistic, the audience still relies on the initial quick read. This step settles the essential basics of the work and adds readability and believability. fig. 3.129 fig. 3.128

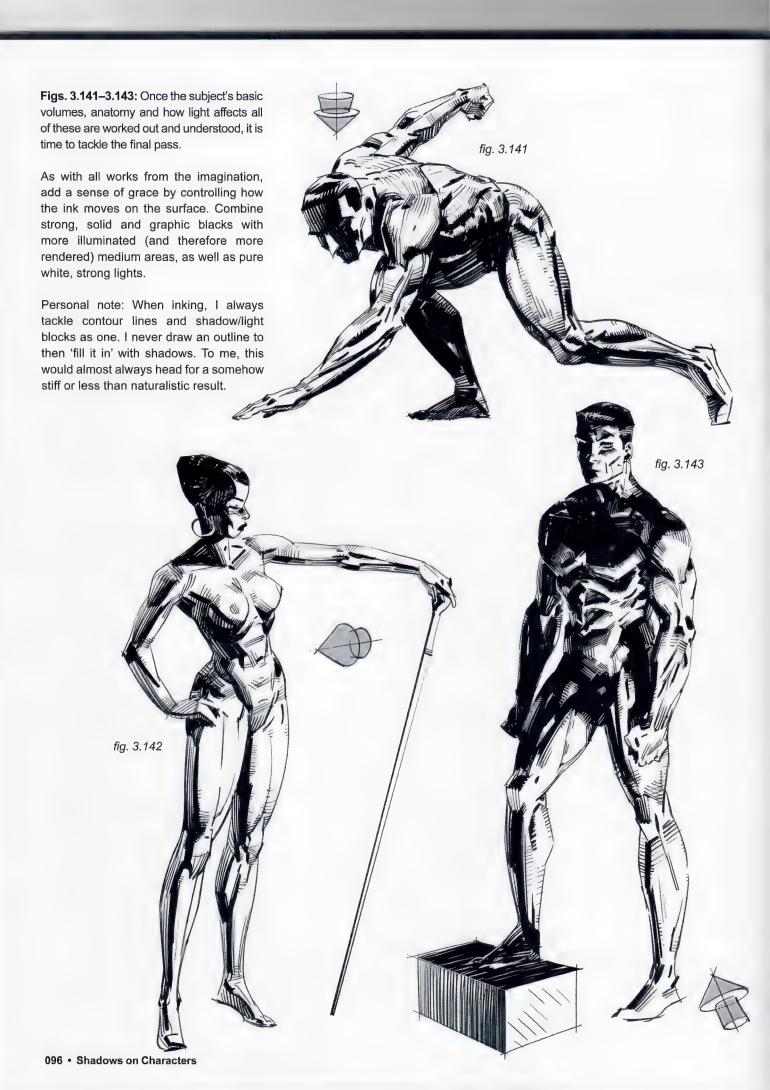
092 • Shadows on Characters

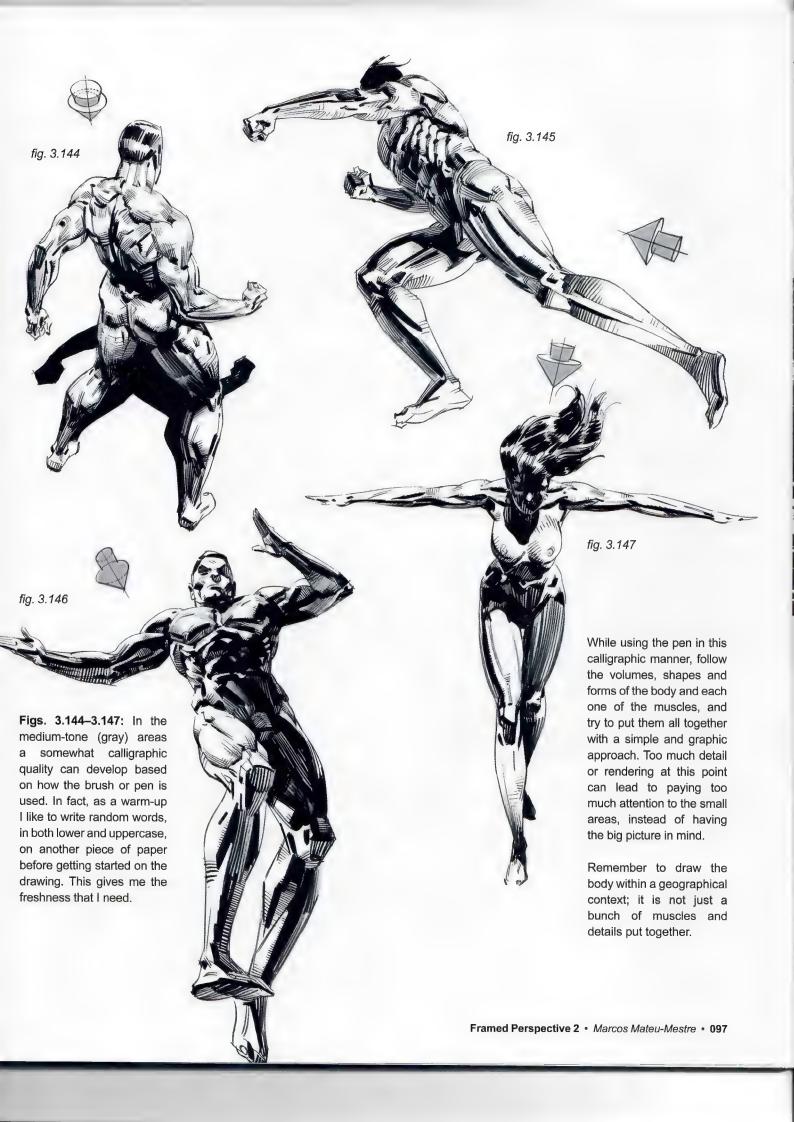


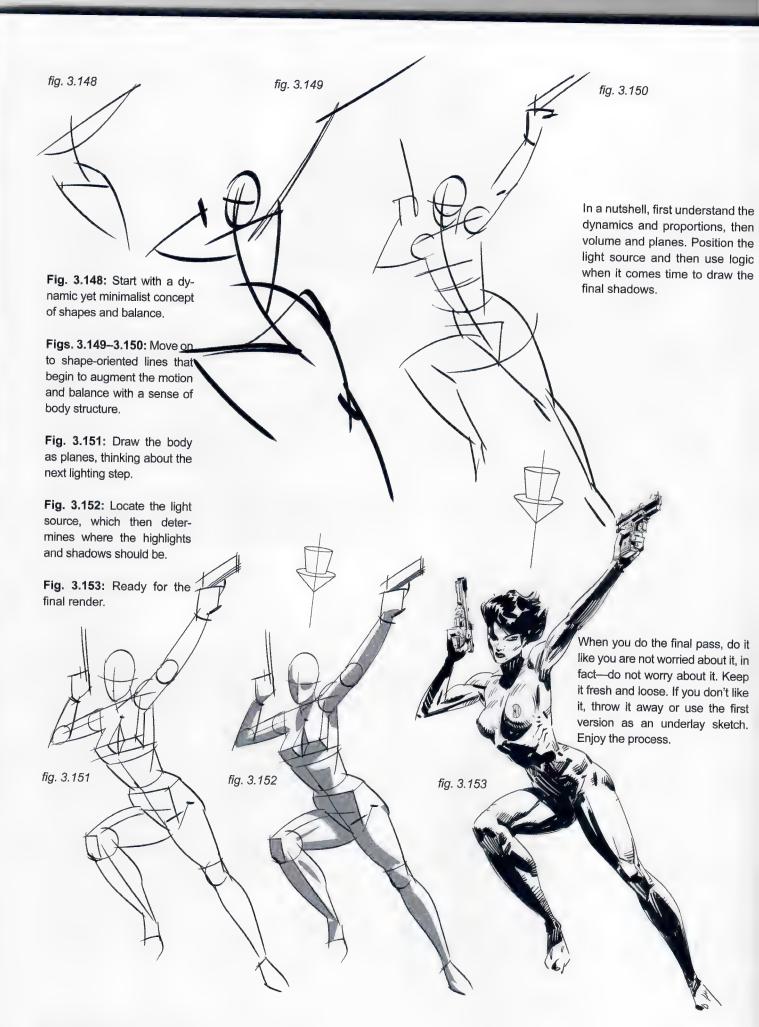


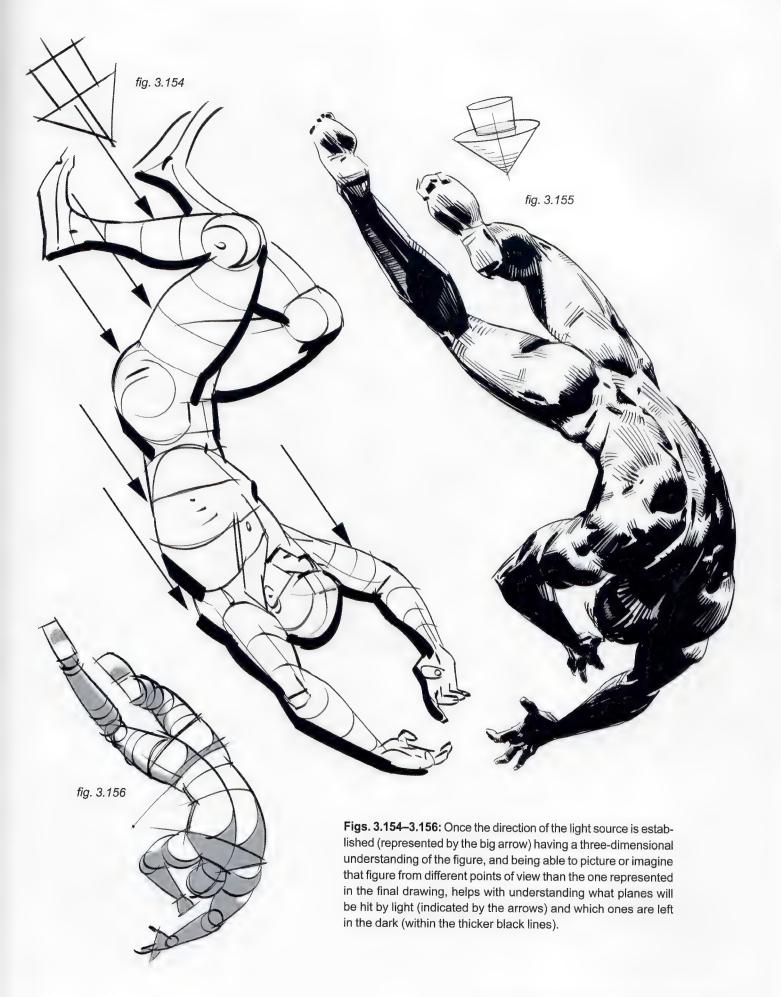
094 • Shadows on Characters

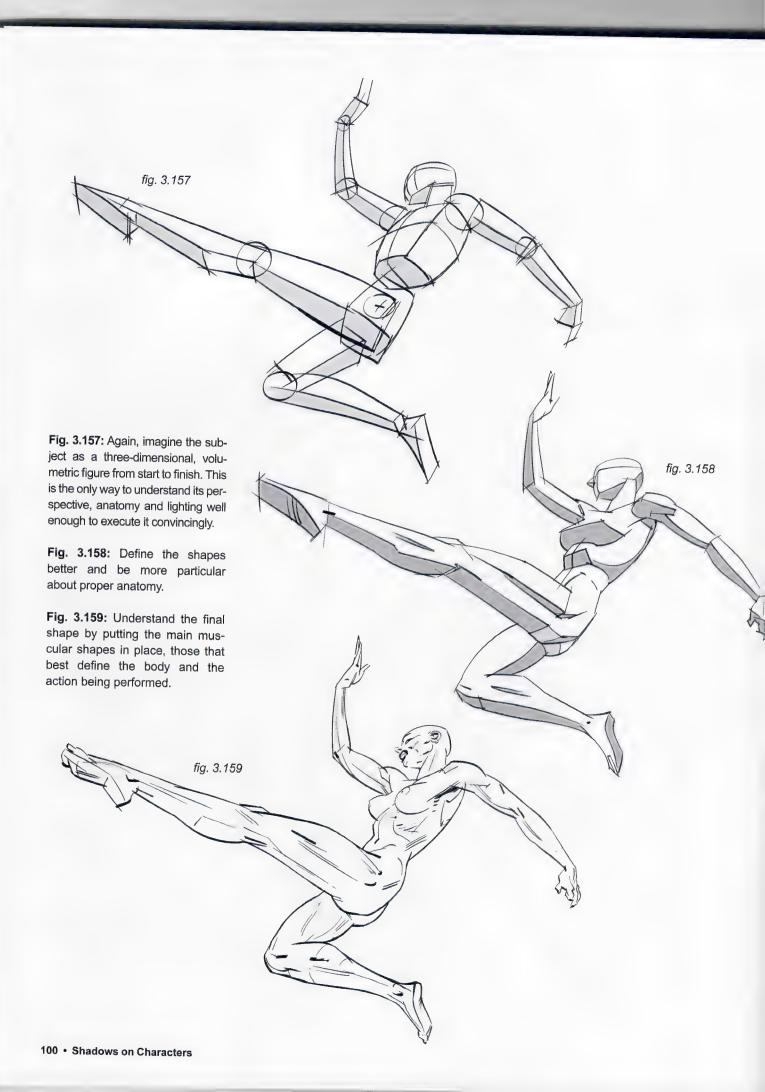


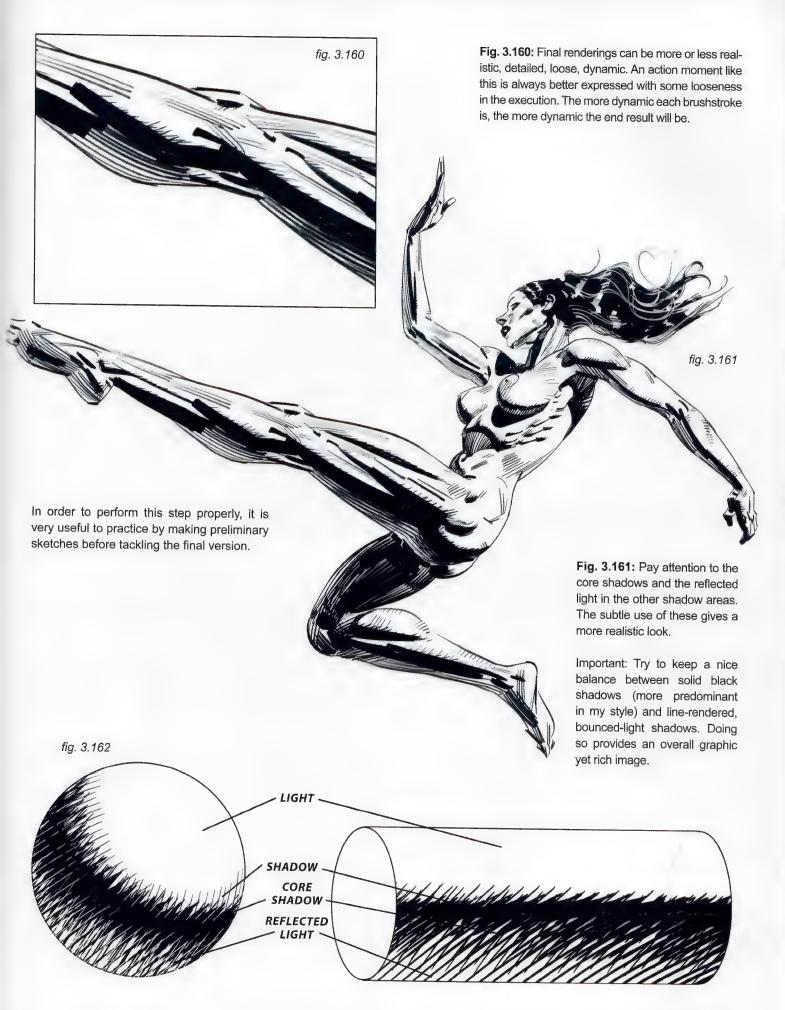












CLOTHING THE CHARACTERS





Figs. 4.4-4.6: The possibilities are endless depending on the type of fabric, how thick or thin it is and how tight or loose it fits. Here are the basic ways clothing behaves on a human body in its more common, regular poses.

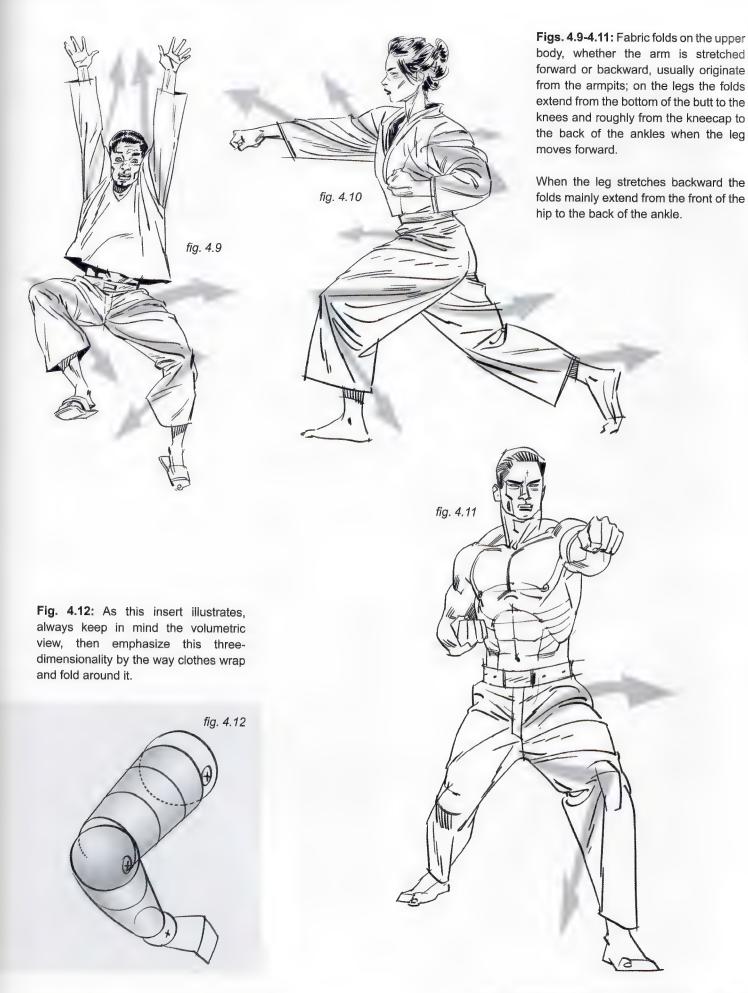
Unless the clothing is very loose, like Roman togas or Renaissance costumes, there are a limited number of basic ways to represent folds and draping to make it look and feel realistic, believable and convincing.

These basics not only describe and define the clothing on a moving body but also help to inform the audience about the dynamics of the character.

Figs. 4.7-4.8: Before going any further, remember that all of the upcoming examples have three-dimensional volumes as their basis. Always imagine the body being composed of cylinders

and spheres, no matter the point of view. Then add clothing and describe its folds as it wraps around these basic volumetric shapes.





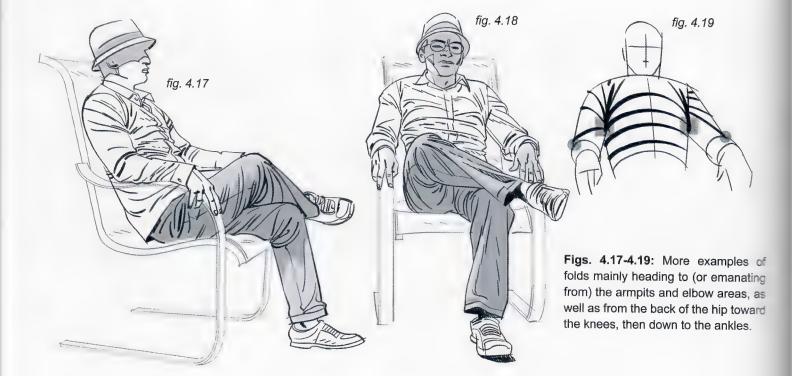
Framed Perspective 2 • Marcos Mateu-Mestre • 105



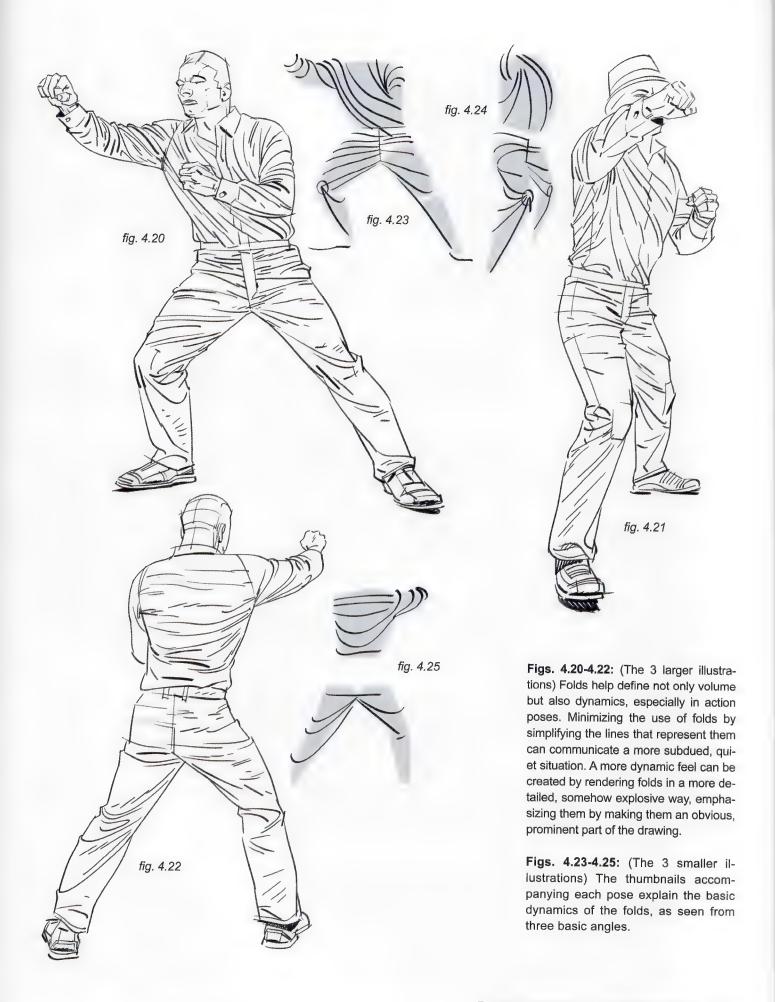
Figs. 4.13-4.14: As seen from the front, when arms are crossed the folds direct toward the armpits in the shoulder and upper-arm areas, then wrap around the forearms from elbow to wrist.

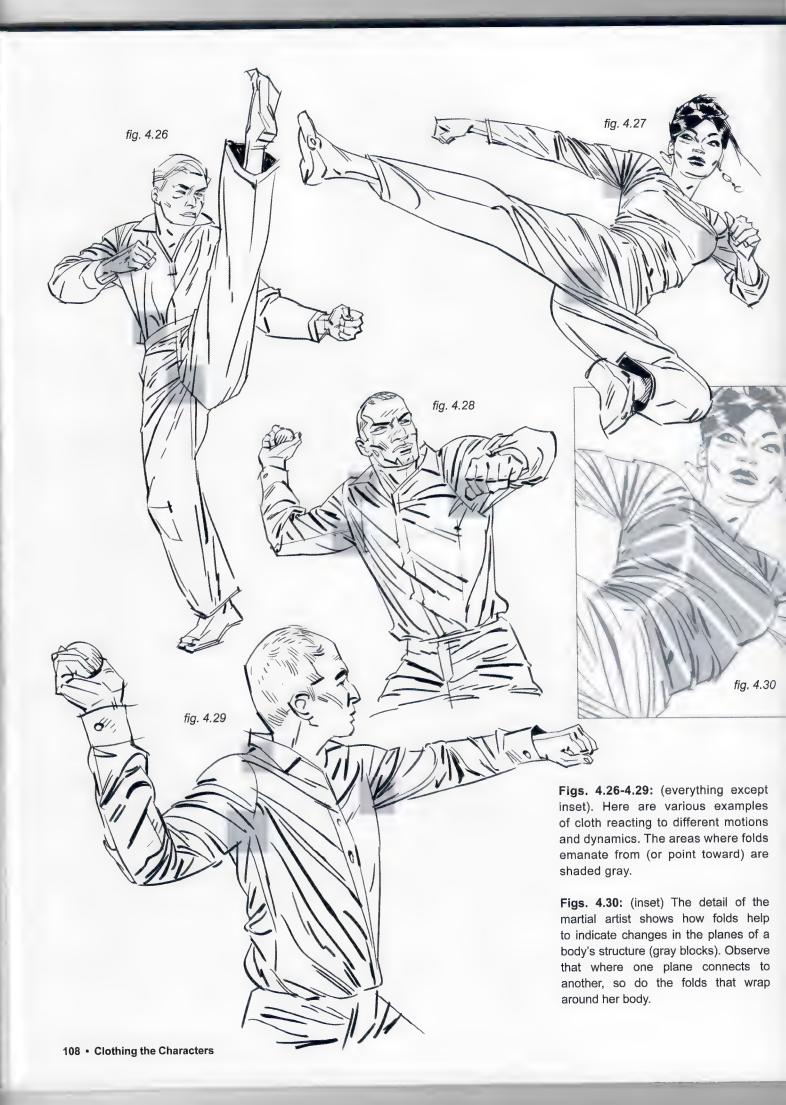
Figs. 4.15-4.16: As seen from behind, the folds stretch from shoulder to shoulder across the upper-torso area, stretching the most between the two shoulder blades (gray rectangle) since these usually protrude the most from the back. Then, moving lower toward the waistline, which is usually a narrower area, the fabric does not have much support anymore and is on a somewhat "emptier" area. Therefore folds adopt a looser fashion and arch down toward the lower back. Again, except for the folds at the very top of the back, the rest extend from the armpits.

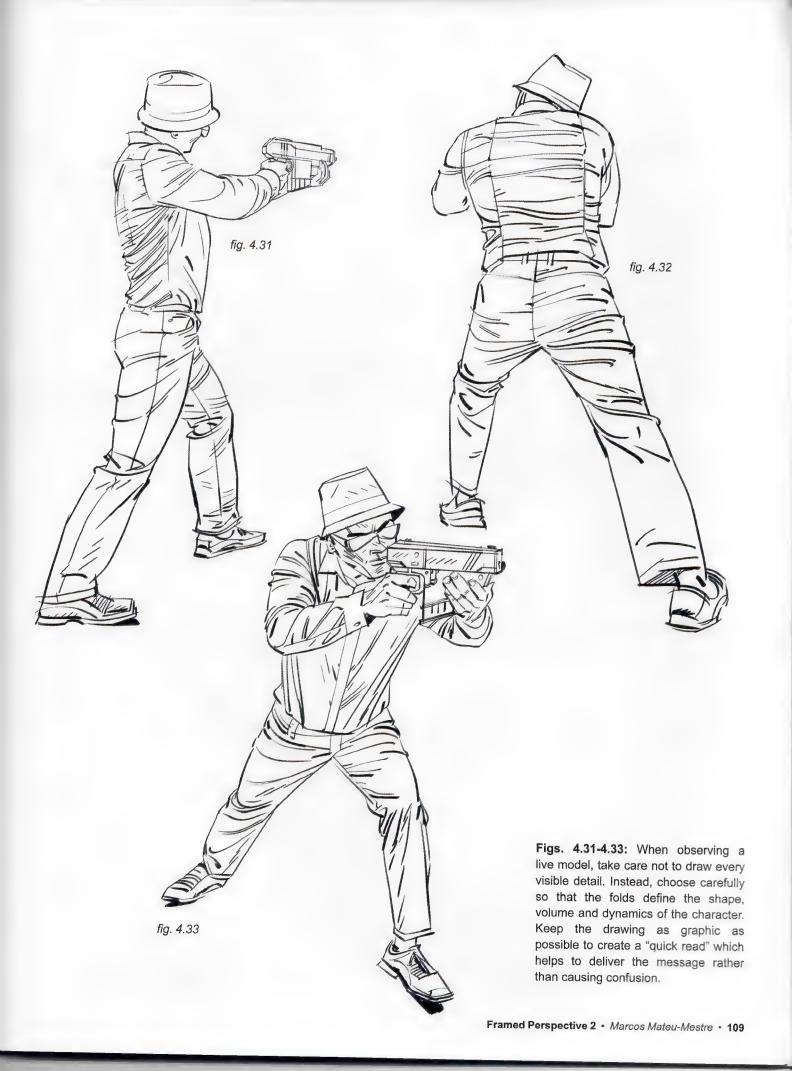
Note: For clarity, the folds in these examples are a bit heavy on the ink. Normally they would be rendered a bit lighter.



106 • Clothing the Characters













Figs. 4.40-4.42: Here are some examples of how clothing folds help to emphasize the sense of volume of the subjects in a finished illustration. The direction of the brush strokes follows the direction of the folds and helps to establish the shape of the volume (arm, leg, etc.) that the clothing is wrapped around.



fig. 4.41



fig. 4.42





RENDERING: THOUGHT PROCESS EXECUTION



The artwork in this chapter was created directly from photographs to show how my mental process works in real-time and how I see and translate real-life elements into hand-drawn graphic statements. In order to keep an organic yet properly structured feel, I drew most lines freehand but used a ruler for a few essential lines to anchor the whole look in a more solid place within a general sense of spontaneity.

Although details like the baby strollers on the left can add a lot of potential character to a scene, in this case they became visually confusing and did not help to define the corner of the alley.

Emphasizing the blacks in the trees behind the house (at top) made the whole house pop a lot more, framing the roof's silhouette especially well.



Fig. 5.3: Adding textural lines on the left wall helps to establish a better sense of perspective, structure and depth. Make sure to work from a good perspective grid, otherwise the final result will be disorganized and contrary to what is needed.

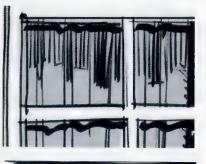




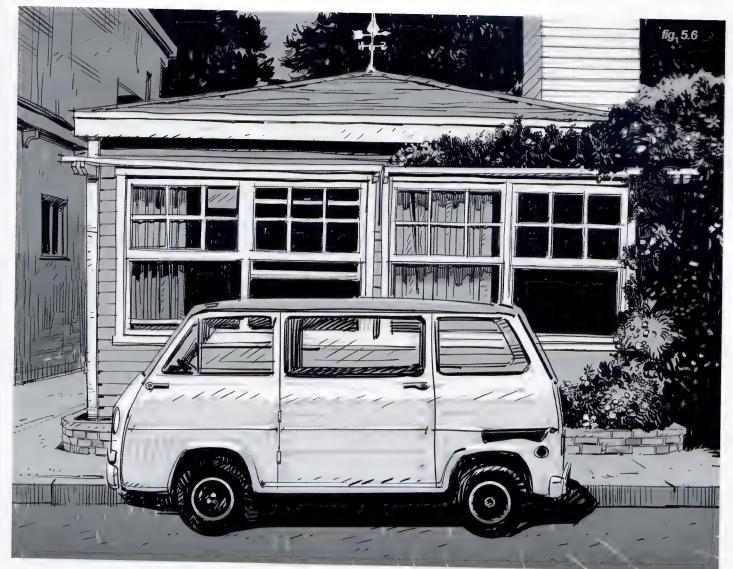
fig. 5.4

Fig. 5.4: The shadows of the window frames on the curtains help define the volumes of the folds in a quick, effective and graphic manner.

fig. 5.5

Fig. 5.5: The windows on the right side of the façade have been simplified, the curtains eliminated, to take advantage of the sharp contrast between the white frames and the dark interior.

Similar to the dark mass of trees behind the rooftop, always look for opportunities to use ink in a daring manner.



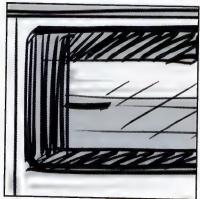


Fig. 5.7: As seen through the windows of the van, the dark interiors of the house and the van seem foggier and somehow lighter. Using a quick line shadow of that interior—as opposed to solid black—does a better job at describing that.



fig. 5.7

fig. 5.8

Figs. 5.8: Taking care to throw a bit of light at the top of the tire helps to establish a sense of volume that a solid black tire would not explain so well.

fig. 5.9

Figs. 5.9: The same applies to the hedges and ivy at the right. Using an overall black ink frames the image well, but leaving lighter areas helps to describe the volume, and a proper textural use of the pen or brush describes the shapes of leaves and flowers in a somehow abstract but effective way.



Compositionally, I changed a few things from the live reference. Mainly, I removed some of the trees that were partially covering the city hall's dome, to make a more clear image overall, especially since those trees are pretty close to the center of the drawing. Plus, it feels good to celebrate such a beautiful building. For added clarity I eliminated some signage and the canopy at the entrance of the medium-sized building center-left. Lastly, the skyscraper was moved further right so as not to be perfectly centered behind a tree.

For the inking I threw some (nearly) solid blacks and the shadow sides of the main buildings for a graphic accrease making sure to keep some brief areas of white to break the severity and coldness of a purely solid black shape (a material of style really).

fig. 5.11

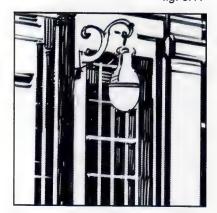


Fig. 5.11: The tree branches and leaves in front of these windows (street level, left) have been eliminated from the original image to clarify the area and give it a more graphic look.

fig. 5.12

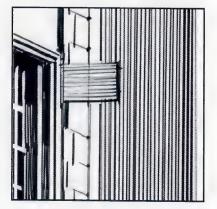


Fig. 5.12: When drawing parallel lines in Photoshop I prefer to give them a freehand feel. To do this, draw several short freehand parallels, select them all as a group and transform/stretch them. This eliminates most of their potentially wobbly quality, as any shake in the line gets stretched out and therefore watered down.

fig. 5.13



Fig. 5.13: When a detailed drawn: needs to be rendered white-on-beam it is better to draw white on a background then to try to ink the background around the white areas



fig. 5.15



Fig. 5.15: Solid black is rendered here with thick black brushstrokes while leaving a few gaps to avoid a cold, uninspiring look.

fig. 5.16



Fig. 5.16: Sometimes an interesting, preciously ornate building such as this one is better rendered accordingly, while staying within the general style of the rest of the panel.

fig. 5.17



Fig. 5.17: To render the mass of a treetop, it is generally advisable to go at it by roughly describing the shapes of the leaves in a loose, abstract way rather than just applying a black mass.



Fig. 5.18: Here is an opportunity to frame a nice structure with the darker shapes of the trees around it, with the light source shining at an angle that helps define the volume of the rooftops and the details on both sides of the façade. As part

of the overall look I reduced the angle of the sidewalk in the foreground, making it more horizontal. Otherwise it might give the feeling of a somewhat distorted perspective of the road.



Fig. 5.19: Creating new bushes in the foreground (left) helps focus the view more on the house and makes that corner of the image more visually interesting.

Some of the white details were added afterward to break the monotony of a simple, solid, dark shape.



Fig. 5.20: This tall palm tree helps emphasize the general sense of perspective, creating an arrowshaped overall structure for the panel (with its widest side on the left, pointing to the right) that balances things out nicely.

Note how this tree is still connected to the rest of the bushes. If it had been drawn as an isolated element it would get too much attention.

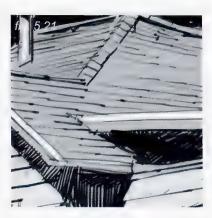


Fig. 5.21: Sketchy but organized lines on the rooftop define the texture of the tiles and the general perspective of the house.



fig. 5.23



Fig. 5.23: Although the shadow areas underneath the eaves and the umbrellas could have been rendered solid black, using a thinner brush and leaving scattered areas of white in a fresh, organic way brings an interesting sense of bounced or reflected light that gives the feel of a hot day in town.

fig. 5.24



Fig. 5.24: I decided to give the big hedge at the right more variety of patterns and texture, still keeping within the generally graphic, blocky shape, so that it would look more interesting.

fig. 5.25



Fig. 5.25: Adding this tree to the very right brings home the arrowhead shape. It was not rendered white on black but the other way around, as it was defined with a thin-tipped brush.



Notes on Composition

THIS CHAPTER BRIEFLY ANALYZES
THE ILLUSTRATIONS IN THIS BOOK
BASED ON THE COMPOSITIONAL,
CHIAROSCURO AND INKING
TECHNIQUES EXPLAINED
IN DEPTH IN THE PREVIOUS BOOK
"FRAMED INK"—







Page 30-31, fig. 1.47: The fact that the two gladiators have been pushed to the right side of this composition is simply due to the fact that the basic idea was to show the shadowed patterns on the walls. Still, diagonals clearly dominate this composition for dramatic purposes.







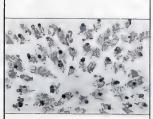
Page 34, fig. 1.52: Flat out symmetrical image. Foreground in black. Lighter tones for the more distant background. The rim lights on both sides of the character make him pop up. The envelope is also lit as a main narrative point.

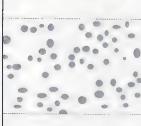






Page 35, fig. 1.54: Almost like a keyhole structure (very appropriate for a conspiracy-type shot!). The circle plus the two vertical characters overlapped on it make the statement.







Page 58-59, fig. 2.87: Darker dots pattern on a lighter surface. Dynamically everything goes straight to the single vanishing point.



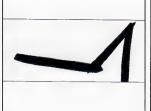




Page 60-61, fig. 2.88: Circles, which always make a strong statement, are the base for this one together with the arrowhead-type shape of her arm and weapon.







Page 64-65, fig. 2.91: Overall horizontal flow in this image only broken/accentuated by the bigger and vertical shape of the cowboy to the right.

tive is dominant, with mostly straight lines, topped by a soft curve emphasizing the more organic side of the image.





GLOSSARY

Α

angle of inclination - The angle between a line and the x-axis. This angle is always between 0 and 180 degrees and is measured counterclockwise from the part of the x-axis to the right of the line.

auxiliary vanishing point - That point toward which receding parallel lines appear to converge for secondary elements of an object or a scene, such as a ramp or a pitched roof.

В

background - The part of a scene or picture that is farthest from the viewer. All background elements are there to offer information about the environment and frame the character.

baluster - An object or vertical member having a vaselike or turned outline.

bird's eye view - A view from a high angle as if seen by a bird in flight, often used in the making of blueprints, floor plans, and maps.

blueprint - A design plan or other technical drawing that shows how something will be made.

C

cantilever - A long projecting beam or girder that sticks out from a wall or other structure to support something above it.

center of vision - The precise point on which the eyes of the observer are focused. This point is at the end of the line of sight.

centered composition - The centered way in which something is put together or arranged.

centerline - A real or imaginary line that is equidistant from the surface or sides of something.

central vanishing point - A point in the picture plane that is the intersection of the projections of a set of parallel lines in space onto the picture plane.

chiaroscuro - The distribution of light and shadow in an image.

concentric - Pertaining to the relationship between two differentsized circular, cylindrical, or spherical shapes when the smaller one is exactly centered within the larger one, therefore having the same center.

cone of vision - The cone of vision is the visual region displayed by a drawing that relates to a person's normal vision without his/her peripheral vision.

converge - As parallel lines recede into the distance, they appear to merge at a single point at a person's eye level (also known as the horizon line).

D

diagonal - A straight line that connects two nonconsecutive vertices of a polygon.

diagonal vanishing point - A diagonal point where parallel lines appear to meet in the distance.

down shot - An elevated view from a high angle.

drawing through - Drawing through the form. Thinking about the 3D volume of the object and keeping the form in mind.

Dutch angle - A type of camera shot where the camera is the off to one side so that the shot is composed with vertical lines at an angle to the side of the frame.

Е

ellipse - A circle in perspective.

eye level - Located exactly at the height of sight (or eyes) at any given time; therefore it follows wherever the viewer goes.

F

façade - The front of a building.

focal length - The distance from the surface of a lens to the point of focus.

foreground - The part of a scene or picture that is nearest to and in front of the viewer.

foreshortening - To shorten the lines of an object in a drawing or other representation to produce an illusion of projection or extension in space.

G

grid of squares - Evenly spaced verticals and horizontals.

ground plane - The theoretical horizontal plane receding from the picture plane to the horizon line.

н

horizon line - A horizontal line across a picture. Its placement defines the viewer's eye level.

horizon plane - A plane that, going through the viewer's eyes contains the line of sight.

L

left vanishing point - The spot on the horizon line to which the receding parallel lines diminish. In two-point perspective, the left side has its own vanishing point.

line of sight - An imaginary line that represents the straight direction in which the observer's eyes are looking.

long lens - A lens with a long focal length.

M

mid-ground - The part of the picture that is between the foreground and background.

N

nadir - The point located at the opposite end of a zenith, basically the center of the Earth.

0

observer - The character through whose eyes the scene is viewed.

one-point perspective - A rendition of an object with a principal face parallel to the picture plane. All horizontal lines parallel to the picture plane remain as is, and all other horizontal lines converge to a preselected vanishing point.

opacity - The quality of a material that does not allow light to pass through it.

P

parallel - Lines or planes that extend in the same direction, everywhere equidistant.

pencil/thumb - Simply stretch an arm in the direction of the object being viewed and hold the pencil (usually vertically or horizontally) to measure the distance between two key points. Hold the pencil in such a way that its tip precisely overlaps one of the key points and then slide a thumb along the pencil, stopping right at the position of another key point. Still holding the pencil just so, move it until it is positioned over the other part of the model that is being compared to the first measurement. It will become obvious which one is relatively longer or shorter and by how much, providing a way to better estimate the proper proportions of the model/scene.

peripheral vision - The act of seeing images that fall upon parts of the retina outside the macula lutea. Also known as indirect vision.

perpendicular - Lines that are right angles (90-degree angles) to each other.

perspective - A technique of depicting volumes and spatial relationships on a flat surface.

perspective grid - A network of lines drawn to represent the perspective of a systematic network of lines on the ground or on X-Y-Z planes.

Photoshop - 2D Digital rendering software designed by Adobe Systems (www.adobe.com).

picture plane - The plane of a drawing that is in the extreme foreground of a picture, is coextensive with but not the same as the material surface of the work, is the point of visual contact between the viewer and the picture.

point of view - A position from which someone or something is observed.

polyhedron - A solid formed by plane faces.

R

ramparts - A protective barrier.

right vanishing point - The spot on the horizon line to which the receding parallel lines diminish. In two-point perspective, the right side has its own vanishing point.

rise - The total height from the floor to the top of the last step.

run - The total length of all the steps projected on the ground plane.

S

spiral composition - Piecing your elements together and eliminating unwanted elements and chaos to create a spiral flow for the viewer to follow.

station point - The position of an observer that determines the perspective rendering of the objects or scene being represented in a drawing.

Ŧ

tangents - Meeting a curve or surface in a single point if a sufficiently small interval is considered.

three-point perspective - Often used for buildings seen from above (or below). In addition to the two vanishing points from each wall, there is now one for how the vertical lines of the walls recede.

tonal - Relating to color tones. The lightness or darkness of a color.

tread - The upper horizontal part of a step.

two-point perspective - Linear perspective in which parallel lines along the width and depth of an object are represented as meeting at two separate points on the horizon that are 90 degrees apart as measured from the common intersection of the lines of projection.

U

upshot - Seen from ground level or from the lowest level upwards.

V

vanishing point - That point toward which receding parallel lines appear to converge.

vision - The perception of light, reflected off objects, that comes straight toward the eyes.

W

wide-angle lens - Literally includes a wider view, from left to right and top to bottom, of the subject it points at.

wind rose - Another "pretend" contact lens looked through at all times. It consists of four lines at different angles (vertical, horizontal, diagonal-right and diagonal-left) that help identify the angle of inclination for any given line being drawn, although the drawn line usually does not coincide exactly with any of the wind rose's lines.

Z

zenith - A point located at the top end of an imaginary line that is perpendicular to the ground plane, as if such a line were coming straight out from the center of the Earth, past its surface, and up.

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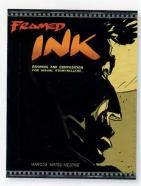
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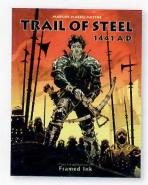
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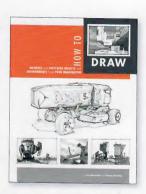


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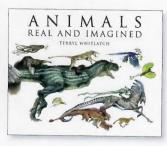
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Drawing the first line on a piece of paper is making a powerful choice. Marcos, using his lifelong experience as a successful commercial artist in multiple mediums—illustration, comic books, movie design—is offering you fantastic tools and pointers in *Framed Perspective Vol. 2*, to help you make all the right choices.

-Pierre-Olivier Vincent

Production Designer, How to Train Your Dragon 2



MARCOS
MATEU-MESTRE
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Building on the foundation established with *Framed Perspective Vol. 1: Technical Perspective and Visual Storytelling*, artist and best-selling author Marcos Mateu-Mestre delves deeper into particular elements that can make or break an illustration with *Framed Perspective Vol. 2: Technical Drawing for Shadows, Volume, and Characters*.

Here he covers such challenging tasks as projecting shadows in proper perspective on various environments and depicting characters in perspective set in different situations—and makes them less daunting. You will also learn how to effectively observe a model or object in order to extract just the right amount of information to then translate it into an impactful graphic and visual image, the goal of every visual storyteller.

Only in *Framed Perspective Vol. 2*, will you find Mateu-Mestre's imaginative scenes explored in great detail, revealing invaluable drawing techniques—from how to capture the essence of a character with one gestural line, to using clothing folds to further define the shape and volume of a character—to help you drastically improve your drawings. It all depends on your perspective!



